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JANUARY 13, 1917.

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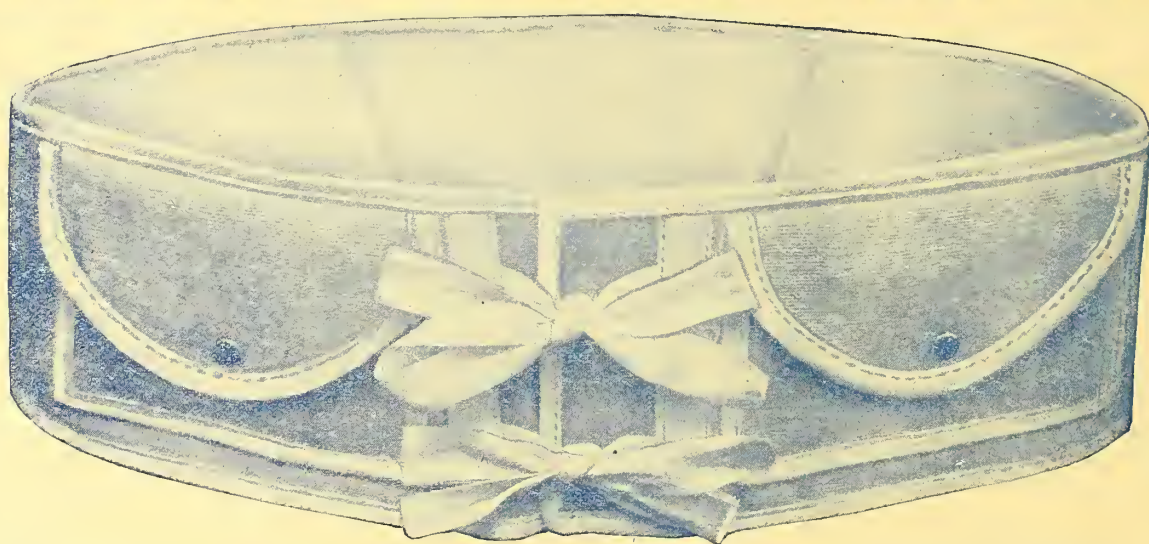
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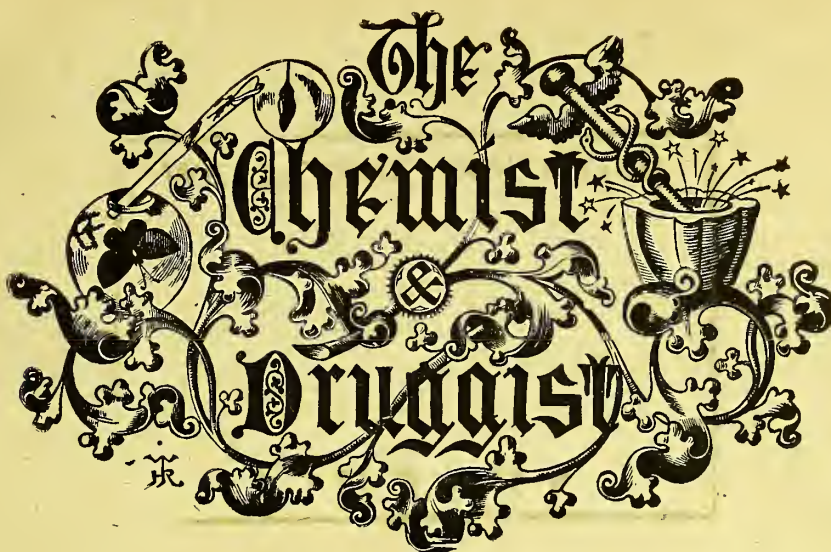
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**DELAY IS DANGEROUS**  
**IT IS FOLLY TO**  
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**TABLETS**

Adult dose-1 Tablet every 2 hrs.  
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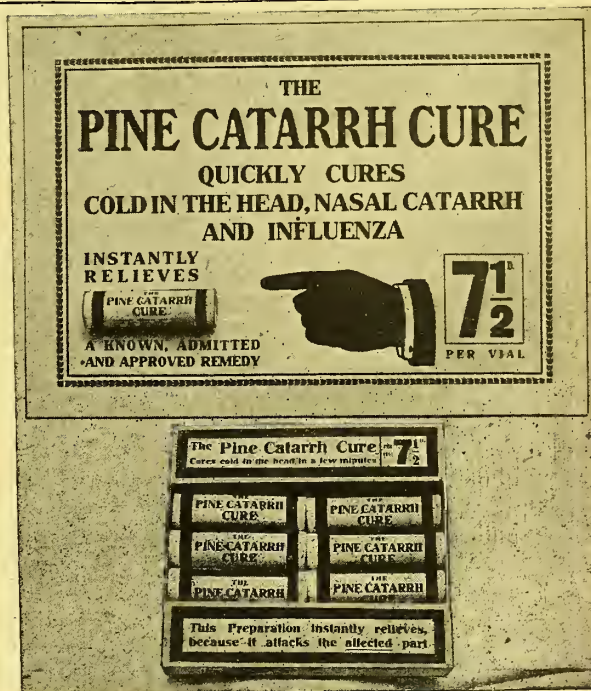
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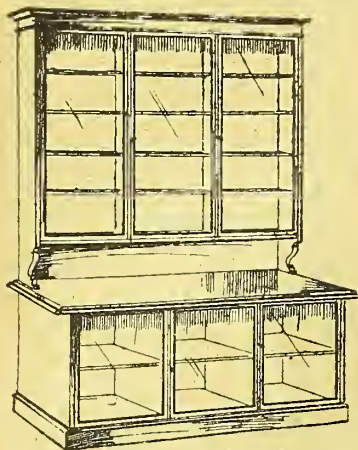
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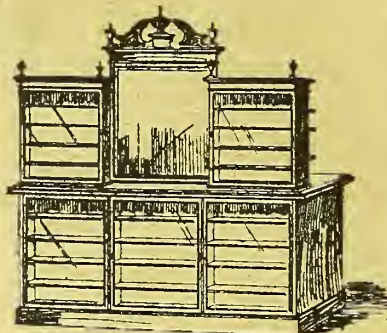
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6 ft. " "	... 9 7 6
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8 ft. " "	... 12 10 0
9 ft. " "	... 14 0 0
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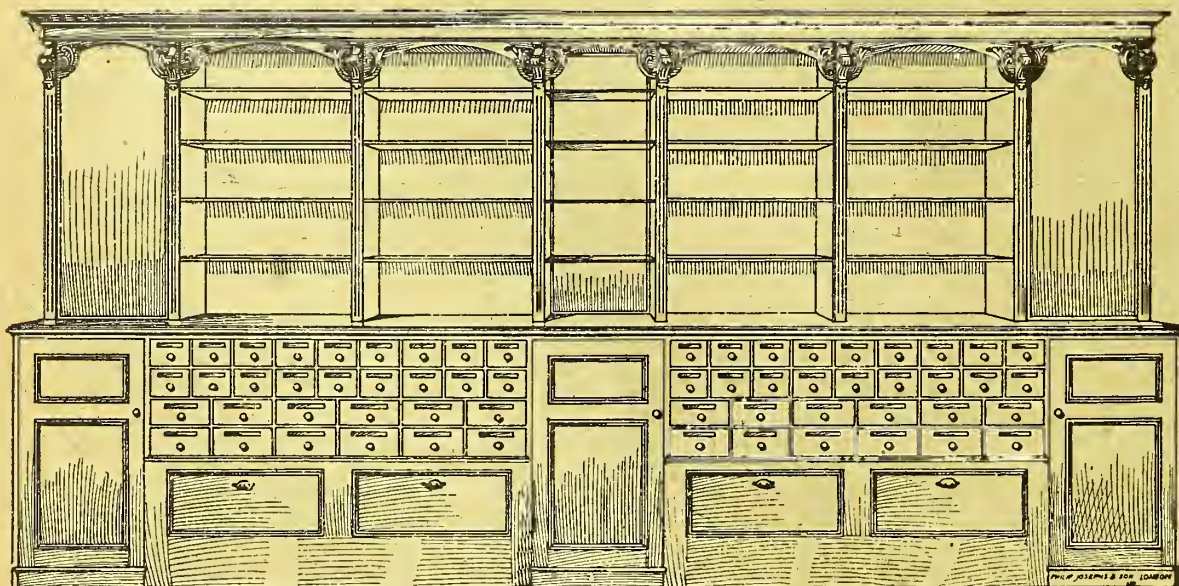
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7 ft. " "	...	6 10 0	



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*That is the duty of every one of us, whether it be in the Trenches, on the Seas, in the Factory, or in the Shop—* **CARRY ON!**

*And to all the thousands of our friends in the Soap, Disinfectant and allied trades both manufacturing and distributing, who are so bravely "carrying on," fighting the Nation's battles or doing the Nation's work, we extend the earnest wish that the coming year may bring* **VICTORY TO OUR ARMS and PEACE TO THE WORLD.**

**GOD SAVE THE KING.**



BY APPOINTMENT.

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*The Soapery,*  
*Bow, London, E.*



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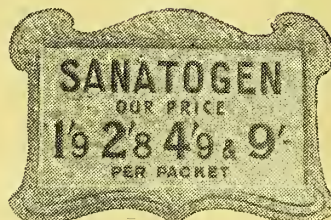
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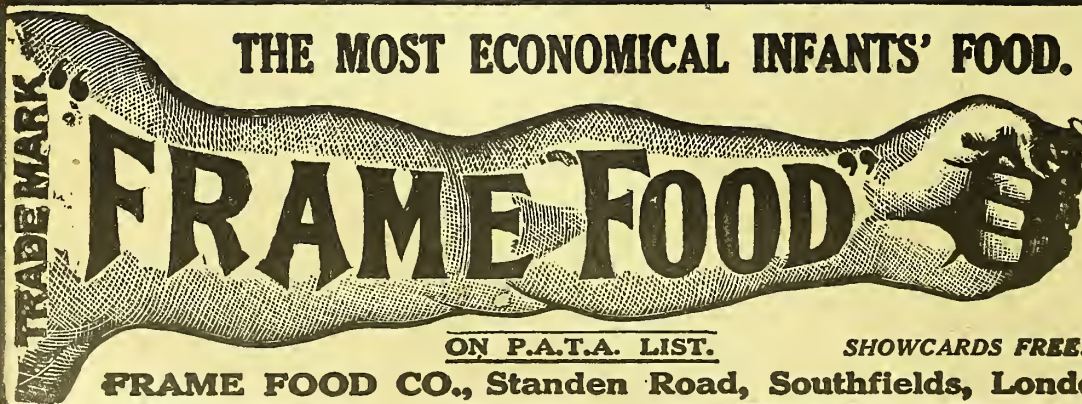
THE CHEMISTS’ BRAND.

‘The Lancet’ says: ‘Of Standard Purity’

Recommended also by *The British Medical Journal, Health, The Chemist and Druggist, Food and Sanitation.*

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

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ON P.A.T.A. LIST.

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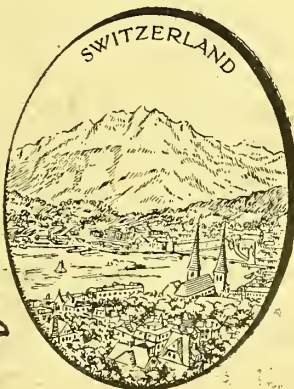
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Amidopyrin  
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Bromide of Ammonium  
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Chloral Hydrate  
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Gallic Acid  
Glycerophosphates  
Guaicol Carbonate  
Heliotropin  
Hexamine  
Homatropine  
Hydroquinone  
Isarol (best Ichthyol substitute)  
Lithia Carbonate  
Lithol (Ichthyol substitute)  
Mercurials  
Methylene Blue Medicinal  
Methyl Salicylate  
Peppermint Oil  
Pepsines, Pancreatin, Peptone and other digestive Ferments

Phenacetin  
Phenazone  
Pyrogallie Acid  
Potassium Sulpho-Guaicolate  
Quinine and Salts  
Quinine Ethyl Carbonate  
Salicylate of Soda  
Salol  
Sugar of Milk  
Tannic Acid  
Tannin Albuminate  
Terpineol  
Terpine Hydrate  
Theobromine  
Thymol Crystals  
Vanillin

### R. W. Greeff & Co.,

THAMES HOUSE,  
QUEEN ST. PLACE,  
LONDON, E. C.



MANCHESTER BRANCH:  
Lloyds Bank Buildings,  
King Street,  
ALSO AT  
NEW YORK:  
R. W. Greeff & Co.,  
80 Maiden Lane.



**FINEST**  
**NORWEGIAN**  
*Medicinal Non-freezing*  
**COD LIVER OIL**

*The Cheapest & Best on the Market.*  
*Special Facilities. Let us have your Enquiries.*

**ISAAC SPENCER & Co. (ABERDEEN) LTD. ABERDEEN**

## CHINESE MATERIA MEDICA.

In these days of European shortage manufacturers would do well to try what China can offer in the way of raw materials.

### MEDICINAL HERBS, &c.

**Roots, Barks, Leaves, Flowers, Seeds, Grasses, Gums, Drugs, &c.**  
**SIXTEEN HUNDRED LISTED NATIVE DRUGS.**

Valuable time will be saved if inquiries can be accompanied by samples of former purchases from other sources, with botanical names. Goods press-packed or otherwise, and shipments made against documentary credits.

**OIL SEEDS:** Apricot, Castor, Cotton, Mustard, Rape, Safflower, Sesamum, Sunflower, Ground-nut, &c.

**OILS:** Bean, Cotton, Nut, Castor, Rape, Tea, Wood, &c.

Tea, Raw Silk, Pongees, Raw Cotton, Hemp, &c.

**J. H. RICHARDS, Drug & Produce Merchant**  
 (IMPORT AND EXPORT)

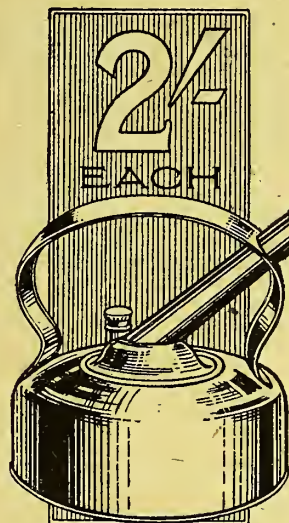
**81 SZECHUEN RD., SHANGHAI, CHINA.**

A FEW AGENCIES FOR HOME  
 MANUFACTURES DESIRED.



# The 'VILLA'

## BRONCHITIS KETTLE



A new bronchitis kettle for the New Year. The "Villa" meets all requirements of a cheap pattern, with the added advantages of reliability and British manufacture. 2½-pint capacity; extra wide spreader. The finish of this kettle is much superior to the ordinary pattern at this price.

### Powder !

Here is a little picture of the war. "Perhaps the most surprising thing in Arras," recently wrote a war correspondent who visited this demolished town, "was the sight I had of two girls who suddenly turned out from one arcade of ruins and crossed the empty square towards another. There they were, obviously well-to-do, well turned out, with a smart and costly simplicity, their hair and feet in perfect daintiness and order, innocently laughing and swinging their chains and purses as though they were on a shopping excursion in the Rue de la Paix, and not as though they might be wiped out of sight at any moment by a German shell."

Here is another picture—a quarter-of-a-mile munition shop on Tyne-side, housing nearly 2,000 girls. Says a writer:

"All the girls wear overalls, and many a winsome face peers at you from amid the forest of belting. At

meal times the male sex at once attend to the needs of the inner person.

"Not so with the woman munition worker. As soon as the buzzer has sounded she will slip behind her machine, delve into the depth of her small attaché case (they all carry attaché cases), and extract, of all things, dainty powder puff, and with it a glass, brush and comb.

"Thus armed, she will critically study herself for a moment in the glass, remove a spot of venturesome grease from her nose, push back under her cap a wayward curl, and, in fact, go through that particular toilette so dear to the feminine heart."

Now we know! While the women provide one sort of powder, we must supply them with the other kind. On such small things does destiny—and business—depend.

*Capsule*

Maw's

S MAWSON & SONS  
(GPO BOX N° 54)  
7-12, ALDERSGATE ST.  
LONDON E.C.

Page

NUMBER 273

JAN. 6, 1917

HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m.

CLOSE AT 1 p.m. SATURDAYS

## NIPPLE SHIELDS

These established British-made patterns need no recommendation from us. It is for you to recommend them to your customers.



THE "HYGIENIC."  
Finest Quality Teat.  
4/9 DOZEN.



ORDINARY PATTERN.  
Stout Glass Receiver.  
3/9 DOZEN.

## THE "PLIANT" HAND BRUSH NOTICE.

The enormous popularity of this recent House of Maw introduction has made it necessary for us to ask our customers to place their orders as far ahead as possible. We can meet your requirements, but we wish to avoid delay and disappointment.

8/6 dozen; 3 dozen for 24/-



## TINFOIL PURE TIN (Free from Lead).

All Thicknesses, Sizes, Shapes, and Designs  
for the Wrapping of

DRUGS, CHEMICALS,  
PLASTERS, BANDAGES,  
AND SANITARY APPLIANCES.  
BOTTLING FOILS.

SHAVING SOAPS FOILS  
(Designed and Perforated).

TOILET SOAPS FOILS,  
AND FOILS FOR COMPRESSED  
TABLETS OF FOODSTUFFS,  
DRUGS, PILLS, LOZENGES, &c.

CHOCOLATE (Embossed or Printed).

Also in REELS for WRAPPING MACHINES  
and

LEAD & COMPOSITION FOILS  
for special Chemical Wrapping.

### H. ERHARDT & CO. Ltd.

9 & 10 Bond Court, Walbrook,  
LONDON, E.C.

Established 1870.

Telephones 383 and 384 City.

Telegrams: "ERHARDT LONDON."

## CHEMICAL PLANT

FOR NEARLY ALL INDUSTRIES IN

STEEL, CAST IRON, BRONZE  
AND SPECIAL ALLOYS

## OR TANTIRON

ORGANIC & SYNTHETIC PRODUCTS,  
SALICYLIC ACID & SULPHONATED,  
CHLORINATED & ACETYLATED COMPOUNDS.

PLANTS FOR NITRIC, SULPHURIC &  
HYDROCHLORIC ACID.

### LENNOX FOUNDRY COY., LTD.

GLENVILLE GROVE, NEW CROSS,  
LONDON, S.E.

Telegrams: "Equifex Dept., London." Telephone: New Cross 770.

*We are Headquarters for*

# WAXES PETROLEUM JELLIES AND WHITE OILS

SEND YOUR INQUIRIES TO US:—

**J. J. Franses & Sons,**

80a Southwark Street  
LONDON, :: S.E.



## Shop Heating Simplified.

The "St. Andrew" Gas-Steam Radiator solves the heating problem—doing away with elaborate, costly, and troublesome hot-water pipes, &c.; no flues, pipes, or boilers. Simple gas connection only required. Automatic regulation of gas supply, ensuring a uniform temperature and no waste of gas. Odourless, non-corrosive, and absolutely safe.



Write to-day for free Booklet.

"STEAM-HEATING  
BY GAS RADIATORS."

**THE  
'St Andrew'  
GAS STEAM RADIATORS**

John Wright & Co., Essex Works, Birmingham.



## To the Trade.

# EMPTYIES

“SHELL”  
 “SHELL” II  
 “CROWN”  
 “SWAN”  
 MOTOR SPIRITS

Commencing January 1st, all empty cans and steel barrels in which the well-known “Shell,” “Shell” II, “Crown” and “Swan” brands of motor spirit have been delivered, should be returned to the “Shell” Marketing Co.’s vans or depots—not to the British Petroleum Company. Credit in full will be given for all such empties received in good condition

### DIVISIONAL OFFICES:

#### LONDON—

Town	...	...	...	} Canada House, Kingsway, W.C.
Home Counties, North	...	...	...	
Home Counties, South	...	...	...	
MANCHESTER	...	...	1, Brazenose Street	
BIRMINGHAM	Carlton House,	28, High Street		

BRISTOL	...	...	...	5a, Union Street
PLYMOUTH	...	“Shell” House,	East Street	
HULL	...	“Shell” House,	21, Story Street	
GLASGOW	...	...	53, Bothwell Street	
DUBLIN	...	...	70, Grafton Street	

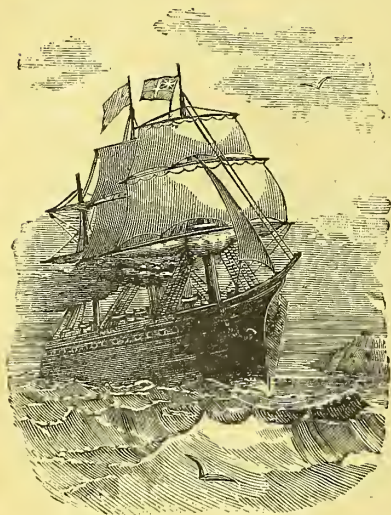
“SHELL” MARKETING CO., LTD.,  
 39 & 41 PARKER STREET, KINGSWAY, LONDON, W.C.



**Good Wishes, 1917.**

---

*TO*  
**DEAR OLD ENGLAND**  
**PEACE,**



*TO*  
**ALL OUR FRIENDS**  
**GOODWILL**

---

**SUCCESS IS ASSURED**  
*BY*  
**PLACING YOUR ORDERS FOR SUNDRIES**  
*WITH*  
**THE SUNDRIES FIRM**

**HENRY W. BUSH & CO., Ltd.**

**REMBRANDT WORKS, COMMERCIAL ST.,  
LONDON, E.**





OUR NEW PREMISES AT ESSEX ROAD, LONDON, N.

When you are dubious about sources of supply for Drugs, Chemicals or Surgical Dressings, write to us. Mutual co-operation will increase British Trade.

*HEARTY GREETINGS & BEST WISHES  
TO ALL OUR FRIENDS.*

**Carnegie Bros.,**  
Essex Rd., London, N.





Take a  
Note of the Name

# Tonalka

*The* BRITISH APERIENT WATER

which will help you to  
Increased Prosperity  
in 1917

Idris & Co., Ltd., Camden Town,  
N.W.





NEW YEAR 1917.

# Lorimer-Marshall, Ltd.

extend once again their greetings to the Drug Trade, hoping that 1917 will bring an increased measure of

**SUCCESS & PROSPERITY.**

*Only by united effort can we win the war in the realms of arms and of trade. Write to us at any time; you are certain to receive our aid and co-operation.*



## LORIMER-MARSHALL, LTD.

Offices & Showrooms : 12 Tower Hill, London, E.C.  
Works : Coldblow, Hatcham, London, S.E.

Telegrams : "LORIMARSCO, BILGATE, LONDON."

'Phone : New Cross 2119.



THE HALL - MARK OF  
ABSOLUTE PURITY, HIGH  
DIASTASIC STRENGTH,  
AND REGULARITY.

# John Bull's help

in keeping up supplies is of immense importance in the War. So also in the campaign for the

## Success and Prosperity

of British Industries, and of our friends the Chemists, the assistance of "JOHN BULL" MALT EXTRACT should be fully utilised

during 1917.

---

*GREETINGS TO CHEMISTS.*

---

**PAINE & Co., LTD., ST. NEOTS, HUNTS.**

*WHOLESALE & EXPORT ONLY.*





We have warned buyers for many years before the War to beware of alien enemies' trades. Events of the past two years have justified our warning, and have proved that the Brushware for Chemists is

## **BEST BRITISH BRUSHES**

which is synonymous with

# **KENT'S**

This has been tried, trusted and proved before there was a German Empire.

---

*Hearty Greetings and Good Wishes for  
a Victorious and Prosperous New Year.*

---

**G. B. KENT & SONS, LTD.,**

75 FARRINGTON ROAD, LONDON, E.C.



— January 1st, 1917.

Once more we have the pleasure of conveying to our many friends a **Hearty New Year's Greeting.**

It has been our misfortune in the closing months of last year to lose our late Managing Director, Mr. Benj. Suttley; also his brother, Mr. Fred. Suttley, who took his place—the latter passing away after a few days' illness.

We desire to express our sincere thanks for the sympathy received in our great loss, and for the patience and consideration shown by customers in the difficulties of the situation; we hope that the present year will witness the cessation of International strife, and that commercial prosperity will once more be restored.

**SUTTLEY & SILVERLOCK, LTD.**

BLACKFRIARS ROAD, LONDON, S.E.

19

*Seasonable Greetings  
to all our  
Druggist Friends*

17

## THE CORK IS THE INDEX

to the Pharmacist. The good-class Chemist is always careful of the appearance and quality of the corks he uses. If you buy consistently from us you will please your customers and increase your trade in 1917. Useful List and Samples sent in response to a postcard.

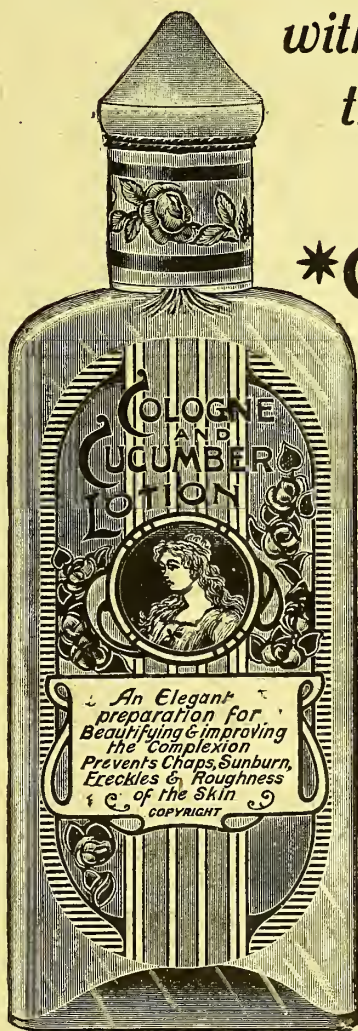
**N. W. MITCHELL & SONS, LTD.**

*"The Cork Firm," Limehouse, E.*



# New Year 1917.

*We extend to all our friends  
our wishes for their prosperity\*  
in the coming year, coupled  
with our appreciation of  
their Goodwill in the past.*



## \*Cologne & Cucumber Lotion

will help towards it in no small measure.

Good for Munion Ladies.

2 oz. - per doz. 3/9

3 " - " 5/0

4 " - " 6/6

3 doz. with own Name and Address.

*Sangers*

258 EUSTON ROAD,  
LONDON, N.W.



For Heartburn, Headache, Biliousness,  
Gout, Acidity of the Stomach, TRY

# Henry's Calcined Magnesia.

Free from Taste, Smell, or Roughness to the Palate.

Prepared  
with  
Scrupulous  
Care and  
Chemical  
Purity.

## Greetings

*To all our Drug-trade Friends  
at Home and Abroad  
New Year 1917.*

Price  
**2/9**  
and  
**4/6**  
per Bottle.

SOLE MANUFACTURERS: **THOMAS & WILLIAM HENRY**, 11 East Street, MANCHESTER.

All bottles have a Government Stamp affixed bearing our name, which is a guarantee of genuineness.

Trade Mark: HENRY'S CALCINED MAGNESIA.

HENRY'S CALCINED MAGNESIA can be obtained from all leading Chemists in the United Kingdom & abroad.

United States: SCHIEFFELIN & Co., 170 & 172 William St., New York.

France: ROBERTS & Co., 5 Rue de la Paix, Paris.

## A CLEAN SWEEP IN 1917.

May this year 1917 mark a  
"clean sweep" of undesirable  
factors either in National or  
commercial affairs.

A "clean sweep" of rats is  
secured by using "Rodine" for  
rat extermination, and pros-  
perity comes to the seller.

Thanks for past favours.

**HARLEY,**  
Manufacturing Chemist,  
**PERTH, Scotland.**

EXPORT AGENTS:  
TOZER, KEMSLEY & MILLBOURN,  
81 FENCHURCH STREET, LONDON, E.C.

## THE BOMBAY AGENTS' COMPANY, 170 HORNBY ROAD, BOMBAY,

with established Offices in Calcutta and Colombo, are  
open to accept further sole agencies for India and Ceylon.  
This Company is owned by a well-known European,  
who has exceedingly good connections all over India.  
Manufacturers of Patent and Proprietary Articles, Chemicals, Drugs  
and Galenicals, cannot obtain better representation in India than  
that now offered.

CORRESPONDENCE INVITED.

## THE WINTER ISSUE OF THE CHEMIST & DRUGGIST WILL BE PUBLISHED ON JANUARY 27, 1917

Price Lists, Business Circulars  
and other attractive advertising  
ideas are inserted as insets on  
terms obtainable from

*The Publisher—*

**42 Cannon Street, London, E.C.**



**PRESCRIBED FOR MEMBERS OF THE ROYAL FAMILY**  
**SUPPLIED TO HER MAJESTY QUEEN MARY'S ROYAL NAVAL HOSPITAL**  
**ALSO TO HER ROYAL HIGHNESS THE PRINCESS LOUISE'S HOSPITAL**  
**THE ALLIES' HOSPITAL (Hopital de l'Alliance), YVETOT, FRANCE**  
**THE BRITISH RED CROSS SOCIETY'S HOSPITALS, etc.**

*Unsurpassable reputation for  
 genuineness. Never claims to  
 do more than it can accomplish.*

*Over a quarter of a century  
 of uninterrupted success as  
 a specialised preparation.*

# KUTNOW'S POWDER

*For Liver, Kidneys & Bowels.*

**THE FAMOUS BRITISH REMEDY**  
**MADE IN ENGLAND ONLY**

**THE POWDER—BOTTLES—CAPSULES—LABELS ALL MADE IN ENGLAND**

It is on the P.A.T.A.  
 It is well advertised  
 It is very popular  
 It is a good article  
 It is never dead stock  
 It yields a good profit  
 It satisfies everybody



The Doctors prescribe it  
 The Nurses recommend it  
 The Public appreciate it  
 The Customer comes again  
 The demand is constant  
 The sales are increasing  
 The trade is progressive

**ORDER AT ONCE FROM  
 YOUR WHOLESALE HOUSE**

**WINDOW SHOWS ATTRACT  
 REMUNERATIVE BUSINESS**

## IMPORTANT NOTICE.

### Hospital War Service

— FREE OF CHARGE —

#### DOCTORS, NURSES & HOSPITALS

*are invited to apply at once for special Physicians' Sample Bottles of Kutnow's Powder, for the use of the sick and wounded both at the front and at home. All applications will be dealt with promptly and supplies forwarded immediately, carriage paid. Applications to be made by letter, and should be marked*

**"HOSPITAL WAR SERVICE,"**

*and addressed to*

**Messrs. S. KUTNOW & Co., Ltd.**

41 Farringdon Road, London, E.C.

## PERSONAL NOTICE.

### Showcards and Bills

— SEND THIS COUPON —

To S. KUTNOW & CO., Ltd.,

41 Farringdon Road, London, E.C.

Please send me Showcards and Counter Bills, carriage paid.

NAME.....

ADDRESS .....

"Chemist & Druggist," Jan. 6, 1917.

*Fill in, cut out, and post in open envelope, affix 1d. stamp.*

**S. KUTNOW & CO., LTD., Sole Proprietors,**

41 Farringdon Road, London, E.C.

# PRECIPITATED Creta PRÆCIP. CHALK.

"Sturge's  
Chalk."



Lightest  
on the Market.

All grades from the **LIGHTEST** to **VERY DENSE**.

MANUFACTURED BY  
**JOHN & E. STURGE, Ltd., 18 Wheeleys Lane, BIRMINGHAM.**

Agents:

**THE NATIONAL ANILINE & CHEMICAL CO., 100 William St., NEW YORK.**

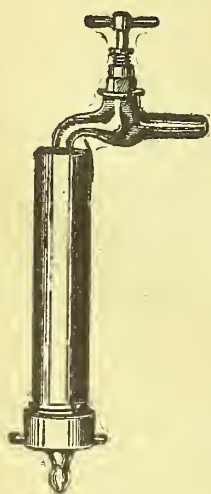
**ALPHONSE RUCH, 63 Rue des Archives, PARIS.**

Also Manufacturers of—

**CITRIC ACID, BICARBONATE OF POTASH, ROCHELLE SALTS and pulv. SEIDLITZ, FLUID MAGNESIA, and "CITRATE OF MAGNESIA," and other Effervescent Saline Preparations.**

Telegrams: "Sturgeon Birmingham."

## PURE DRINKING WATER.



### The Pasteur Chamberland Filter.

OFFICIAL GOVERNMENT  
STATEMENT:

Wherever the **PASTEUR FILTER** has been applied, **TYPHOID FEVER** has disappeared.

WRITE FOR LIST B.

SOLE MAKERS:

**The British Pasteur Chamberland Filter Co.**  
5 WHITE STREET, FINSBURY,  
LONDON, E.C.

## "Prana" Sparklets.

### NOTICE TO THE TRADE.

**M**ESSRS. AERATORS, LTD., regret that it has been, and will be for some time yet, impossible for them to meet demands for the "Prana" Sparklet Syphons and Bulbs, not only owing to other urgent war work, but also to the restricted supply of materials and the large demands (which must be considered preferentially) by the Expeditionary Force Canteens, Red Cross Society, &c. &c.

As regards "D" Bulbs, for the time being it is only possible to refill empty bulbs returned, and the Company request the co-operation of the Trade in the return of as many empties as possible for refilling.

**AERATORS LTD.,**

"Prana" Sparklet Works,  
Upper Edmonton, N.



# 20%

## on outlay, EXCLUSIVE of all Discounts

is the Retailer's Minimum Profit on



TRADE MARK.

# PLASMON

OATS  
COCOA  
CUSTARD  
BLANCMANGE

MEAT and MILK can be largely DISPENSED WITH as these magnificent Plasmon foods supply all the necessary-proteids and phosphates to SUSTAIN HEALTHY VIGOROUS LIFE. 20,000 DOCTORS recommend their everyday use.

LESS EXPENSE—FAR GREATER FOOD VALUE—**British**

*NOTE.—EVERY SHARE IN THE PLASMON COMPANY IS BRITISH HELD.*

**PLASMON LTD., FARRINGDON ST., LONDON, E.C.**

*Contractors to H.M. Government.*

# Virophos

TRADE

MARK.

## AN IDEAL TONIC FOOD

of proved utility in Nervous Exhaustion and Wasting Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

"It is of high nutritive value, enhanced by the presence of assimilable phosphates,"—*The Lancet*.

The pleasant flavour of VIROPHOS is much appreciated by patients.

### PROFIT ON VIROPHOS.

No. 1 (1½ oz.)	Retail 1/3 per tin, 9/- per doz.
No. 2 (3½ oz.)	2/- " 14/6 "
No. 3 (6½ oz.)	3/6 " 24/- "
No. 4 (13 oz.)	6/- " 42/- "

For Export, No. 3 size, in bottles at 27/- doz. is recommended.

Introduced and prepared only by

**C. J. HEWLETT & SON, Ltd.**

35-42 CHARLOTTE STREET, LONDON, E.C.

## "Open" Window-Dressing

with OAK PEDESTALS and GLASS SHELVES

makes your window easier to dress, uses less stock, enables you to achieve a more artistic and effective display, and by constant rearrangement permits the attainment of a different style of dressing each week.



No. SF 1107. Polished. SOLID OAK PEDESTALS with Fluted Pillars.

Inches.	Doz.
12	22/-
18	27/6
24	36/-
30	45/-

For use with Glass Shelves or Cardboard Display Cards.

### PLATE GLASS OVAL SHELVES.

Polished Edges.

18×12	5/9 each.
24×18	10/- "

### ROUND SHELVES.

18×18	9/5 each.
24×24	13/- "

Full Illustrated List of Shopfittings, No. C. 269, Free.

**Dudley & Company,** 451, 550 & 558 Holloway Rd., LONDON, N.



# Aquaperia

(Harrogate)

## The Chemists' Aperient Mineral Water,

supplants Hunyadi Janos,  
Apenta and enemy waters of  
similar character.

Bottled and Standardised by CAMWAL Ltd.  
at their spring,

### HARROGATE.

#### ALTERATION IN PRICES.

**8/-** per Doz.    **7/6** per Doz. in 6 Doz. lots.

*Carriage Paid on 2 dozen and upwards.*

Minimum Retail Prices to the Public, 1/- per Bottle (P.A.T.A.)

*1/6 per doz. allowed for empty bottles returned Carriage Paid to our Factories.*

**SPECIAL ALLOWANCE  
FOR WINDOW DISPLAYS.**

**P.A.T.A.**

Of all Wholesale Houses, and

**CAMWAL Ltd.** Harrogate, Manchester,  
Birmingham, Bristol,  
Mitcham, London,  
and Depots.



# SAVE 3/- PER GALLON BY BUYING GUARANTEED GENUINE NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL OF 1916 MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

**WHOLESALE ONLY.**

*Kindly write for sample to*

**JOB BROS., Manufacturers, Tower Building, LIVERPOOL.**

Telegraphic Address: "JOB LIVERPOOL."

Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F.

Established 1780.

*Dinkie*  
The Dainty Deodorant

A new and attractive line that is sure to enjoy good sales. A greaseless Cream that takes the odour out of perspiration. Daintily packed in opal jars. Ask your wholesaler.

**DECOLTENE**  
The liquid hair remover  
(originally known as Decalene)

A new idea in depilatories. Simple and safe to use—effective in use. Pleasant and harmless. Invaluable during the vogue of the décolleté gown. Daintily packed. Ask your wholesaler.

## TRADE TERMS

**DINKIE:**

Advertised, and min.  
Retail Price

**2/6**

Trade 20/- doz.

**DECOLTENE:**

Advertised, and min.  
Retail Price

**3/9**

Trade 30/- doz.

Monthly Accounts nett. 5% Cash  
with Order.

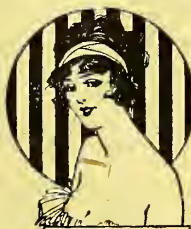
Carriage Paid on £r lots. Particulars  
on request.

**ROBARTES LTD.**

128 Jermyn Street, London, S.W.

Telephone: Gerrard 3672

*Satisfaction  
Guaranteed  
or Money back*



Trade Mark

## Cheaper than String



NOT only cheaper, but ever so much quicker, and parcels sealed with gummed tape look neater and are always secure.

### The Empire Roller Tape Moistener

is proving its value day by day to thousands of retailers in every trade, as the letters we are constantly receiving amply prove.

Read what one Chemist says:—

*"After a prolonged experience I find the thinner the paper the better, and wouldn't be without your machine if it cost treble the money."*

Write for full particulars and prove its value to you.

**John Goshon & Co.,**  
1-3 Golden Lane, LONDON, E.C.

and  
42 Drury Street,  
DUBLIN.





# GAS LIGHT and WARMTH.

**N**O servant of the public is in greater request for divers information on the all-important subject of Health than the pharmacist, who is credited—and generally justly so—with more or less expert knowledge of a widely various (if correlated) nature. Lighting and heating problems even, which are ever-present in one form or another to the public mind, may be submitted to his arbitrament—however little the conflicting claims of this and that illuminant or fuel may seem to bear upon the mysteries of weight and measure which it is his principal concern to solve.

Now, the outstanding fact about modern methods of gas lighting and gas heating is their close approximation, physically, to the light and heat rays of the sun.

Gas light, diffused from an inverted incandescent mantle, is as different from the glimmer of the old flat-flame burner as is high noon from the gloaming. Gas warmth, radiated by the safe and silent gas fire of to-day, is far removed in quality and quantity from the high-convection, low-radiation product of the nineteenth century.

Keeping step with the march of science, gas lighting and gas heating have approximated steadily towards a *natural* ideal; and, wherever artificial light and warmth are required, no householder can do better than adopt the incandescent mantle and the incandescent gas fire as embodying at once the most economical and the most hygienic principle of luminance and radiance next to that of Nature and her power-house the sun.

*Gas Literature, conveying the results of scientific and medical research in questions of gas lighting and gas heating, will be forwarded free on application to the Secretary, British Commercial Gas Association, 47 Victoria Street, S.W.*

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Wholesale & Export Drug Merchants,  
— Manufacturing Chemists —

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**I**NVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	7½d.		5/-
* " " " " " "	1/2		10/-
* " " " " " bottles in cartons	1/6		12/-

**\*Losall's Salt sells so well, surely it must pay Pharmacists to stock such a large profit-bearing protected line.**

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A valuable emollient medicated skin soap, especially suitable for use in Eczema. } 1/6 12/-

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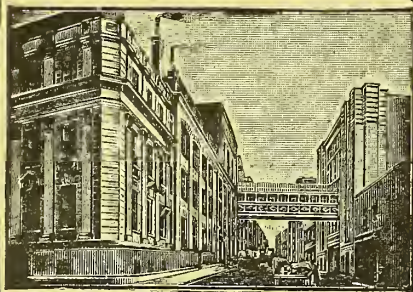


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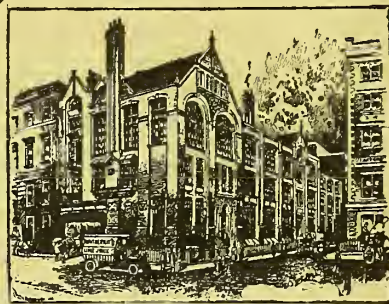


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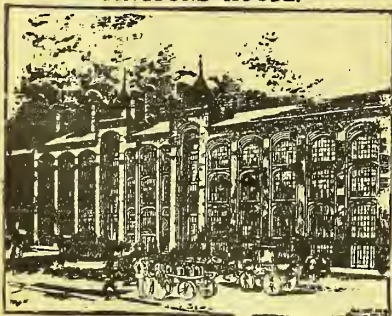
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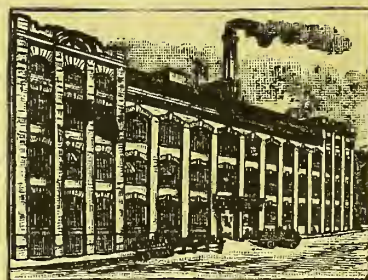
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Guaranteed made from pure Aspirin B.P., manufactured by  
PIERSON, MORRELL & CO., NEW BARNET.

25's, 7/- per doz.; 100's, 25/- per doz.; 1000, 18/-

Subject to a discount of 5% if cash accompanies order.

Prompt delivery if *without* name and address, *with* name and address 7-10 days. A selection of 30 varieties of Labels to choose from.

H. & T. KIRBY & CO., LTD.

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CHELTINE FOODS CO., CHELTENHAM.

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INFANTS' FOODS packed under Chemists' "OWN NAMES."

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FINEST QUALITY

## MILK POWDER. CASEIN.

Inquiries and Orders Solicited.

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With or without the finest Cod Liver Oil.

The product of the finest barley, concentrated by the latest process and of guaranteed purity. Chemist's own label fitted to hermetically sealed bottles.

CALDER'S YEAST CO., LIMITED,  
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# "SANOID" HOT WATER BOTTLE COVER.

(GERRARD'S PATENT).

WOOL - LINED  
QUILTED  
RETAIN THE HEAT



COMFORTABLE in USE  
GIVE SATISFACTION  
WEAR WELL

IN THREE COLOURS, PINK, RED AND BLUE.

8x6	10x6	10x8	12x6	12x8	12x10	14x8	14x10	14x12
6/6	6/6	7/6	7/6	7/6	9/6	9/6	11/-	11/- doz.

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# "SWANDOWN"

## FACE POWDER.

"SWANDOWN"

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HOME COMPANION  
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FORGET-ME-NOT  
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WELDON'S:—

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HOME FASHIONS

Over 12 Million  
people read our  
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every week.

**ARE YOU SURE** You are taking full advantage of our great  
**ADVERTISING CAMPAIGN?**

**ARE YOU SHOWING "SWANDOWN"** in your window and  
on your counter, thereby letting the public know you keep the  
line in Stock?

**ARE YOU GETTING YOUR FULL SHARE** of the  
**MILLION** boxes of "SWANDOWN" which are now  
being sold?

**ARE YOU KEEPING UP YOUR STOCK** of all colours?  
PINK, CREAM, WHITE, FLESH, BRUNETTE. If you are out  
of stock of one colour you may lose a sale at any moment,  
not only of "SWANDOWN" but possibly of another  
article as well.

We receive letters from the public by every post asking for a Box of  
Pink, or Cream, or White, as the case may be, clearly showing that in  
some districts at least Chemists are not as alive as they might be in  
taking advantage of our Advertisements.



**LOOK TO YOUR STOCKS 'DO IT NOW.'**

Write for SHOWCARDS and COUNTER BILLS.

**NOTE THE PRICE.**

P.A.T.A. **7<sup>1</sup>/<sub>2</sub>** per Box.

**74/-** per gross net.

Two Dozen Free Bonus with each Gross.

From all London or Provincial Wholesale Houses.

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# TO INCREASE PHOTOGRAPHIC BUSINESS.

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Should Sell  
the

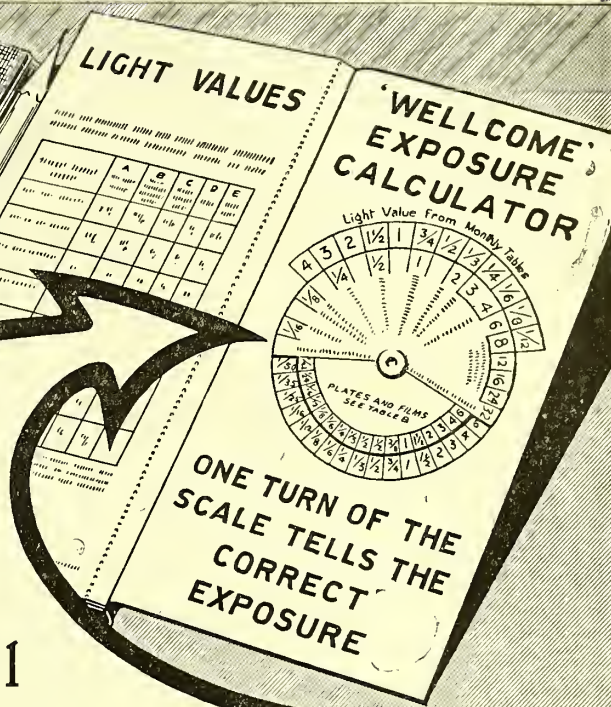
## 'WELLCOME' Photographic Exposure Record and Diary

In addition to the direct profit from sales of the book itself, there is the indirect benefit which accrues to photographic business generally. This little book has proved itself to be one of the most influential means of encouraging and spreading amateur photography. The chemist therefore owes it to himself to sell a copy to every likely customer.

Trade terms:  
12/0 per dozen, less 30%.  
Thirteen copies to the dozen



BURROUGHS  
WELLCOME & CO.  
LONDON





Esvach Water is not a "mushroom" product—it has a fifteen-year-old reputation, and is now firmly established in public favour.

EXTRACT FROM A LETTER  
TO A PHARMACIST ::  
FROM HIS CUSTOMER ::

"I am much obliged to you for drawing my attention to the Esvach Water, which I find in every way quite as suitable and efficacious as \*\*\*\*\* [a leading Hungarian water]. I am sending back the second bottle of the latter which you supplied; please send me two of Esvach instead. I shall recommend the Esvach Water."



## STOCK ESVACH WATER

RETAIL, P.A.T.A.

1/-

PER DOZEN

7/-

Empty bottles credited at 2/- per dozen.

An attractive coloured Show-stand (as illustrated) and other advertising material supplied free on request, also miniature sample bottles for medical men and others.

**THE BRITISH DRUG HOUSES, Ltd.,**  
Graham St., City Rd., London, N.





**A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.**  
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

#### Subscription Rates.

Twelve Shillings and Sixpence a year in advance, post free to any part of the world, including a copy of *The Chemist and Druggist Diary* next published. Subscriptions may begin any month. Single Copy, 6d.; Summer or Winter Number, 2s.; *Diary* 3s. 6d. Postal orders and cheques to be crossed "Marin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12s. 6d., franco.

Подписная цена на еженедельный журнал с приложением Годового Дневника—12 шиллингов 6 пенсов на год с пересылкой.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año 12 ch. y 6 peniques, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

**Head Office: 42 CANNON STREET, LONDON, E.C.**

Telegrams: "Chemicus. Cannon, London." Telephone 3617 Central (three lines).

**Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.**

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## Wills.

MR. SAMUEL RICHARD ANNES, Ph.C., J.P., Ipswich, who died on September 29, 1916, aged eighty-two years, left estate valued at 2,367*l.* 19*s.* gross.

MR. SAMUEL BLACKBURN, retired chemist, 8 Abbey Gardens, Birkdale, Lancs, who died on September 20, 1916, left property of the value of 7,842*l.* 10*s.* 7*d.*, with net personalty 7,033*l.* 13*s.* 8*d.*

SECOND-LIEUTENANT JAMES MCCONNAN, D.Sc., Liverpool, a research chemist to Lever Bros., Ltd., Port Sunlight, who was killed in action on September 20, 1916, aged thirty-four years, left estate valued at 9,199*l.* 3*s.* 1*d.*, the whole of which he gave to his wife.

THE late Mr. Frederick William Brock, managing director of Brunner, Mond & Co., Ltd., Chairman of Crosfield's Soap Co., a director of Castner-Kellner, and a member of the Committee of the Association of British Chemical Manufacturers, left property of the value of 24,628*l.*, the net personalty being 23,627*l.*

JAMAICA TRADE.—Official figures for 1915-16 show that trade which had before the war gone to enemy countries has gone as regards imports more to the United States than to the United Kingdom, while as regards exports to the United Kingdom these make a more favourable showing, because of the enhanced value of the products.

## European War News.

### Import and Export Notices.

GERMANY.—New decrees have been issued with regard to the exportation of various products from Germany. According to a decree of the Imperial Chancellor (December 6, 1916), the exportation of the following articles is prohibited: Raw materials of a mineral and fossil nature (except gypsum), crude chalk in any form, natural well-salts, kieselguhr and similar products, mineral oils, prepared wax, solidified fatty acids, paraffin and other substances used for the manufacture of candles, candles, wax products, soaps, and all products and articles in the manufacture of which fixed oils, fats, or waxes have been used; all chemical and pharmaceutical products, dyes, colours, and paints. The exportation of chemical and pharmaceutical products was already prohibited from September 1915, but lengthy lists of exceptions had been made. From now onwards no exceptions whatever will be made. According to another decree of the Imperial Chancellor, the transit through Germany of fresh or dried or preserved calves' stomachs and of rennet is prohibited.

NETHERLANDS.—Beeswax has been placed on the list of prohibited exports.

NORWAY.—The restrictions upon the importation of cocoa from the United Kingdom into Norway have been cancelled. Consideration will, in future, be given to applications for licences to export certain quantities of cocoa and cocoa preparations to that country, provided that they are intended to be consigned to the Norwegian Chocolate Manufacturers' Association and are covered by a certificate issued by the Association.

RUSSIA.—The Minister of Finance has withdrawn calves' stomachs from the list of articles which, although prohibited to be exported from Russia, may be exported direct to Allied countries without special application for licence in the case of each consignment.

### Contraband of War.

Orders in Council have been published making the following additions to the list of articles to be treated as Absolute Contraband of War: Oxalic acid and oxalates; formic acid and formates; phenates; metallic sulphites and thiosulphates; soda lime, and bleaching-powder; platinum, osmium, ruthenium, rhodium, palladium, iridium, and the alloys and compounds of these metals; strontium salts and compounds thereof; sulphate of barium (barytes); bone black. The following amendments have been made in Schedule I. of the Proclamation of October 14, 1915: For item 8, "ethyl alcohol; methyl alcohol," there shall be substituted "alcohols, including fusel oil and wood spirit, and their derivatives and preparations." For item 35, "aluminium, alumina, and salts of aluminium," there shall be substituted "aluminium and its alloys, alumina, and salts of aluminium." For item 41, "wolframite, scheelite," there shall be substituted "tungsten ores." The following amendment has been made in Schedule II. of the Proclamation of October 14, 1915: For item 5, "fuel, other than mineral oils," there shall be substituted, "fuel, including charcoal, other than mineral oils."

### Personalia.

MR. A. NEWTON (representing Oldfield, Pattinson & Co.), Manchester, has been gazetted lieutenant and adjutant to the 4th Battalion Lancs Volunteer Regiment.

PRIVATE S. SHEARMAN, of the Army Cyclist Corps, son of Mr. J. S. Shearman, chemist and druggist, King Street, Yarmouth, has been awarded the Military Medal for bravery in the field.

LIEUTENANT HERBERT H. MARKS, 10th Service Battalion Durham Light Infantry, elder son of Mr. H. B. Marks, director of International Sponge Importers, Ltd., has been awarded the Military Cross.

LIEUTENANT-COLONEL (TEMPORARY COLONEL) ROBERT J. BLACKHAM, R.A.M.C., who has been decorated with the Distinguished Service Order for gallantry in the field, is a pharmaceutical chemist (Ireland), and was formerly an assistant at Graham's Medical Hall, Dublin, and Hamilton, Long & Co.'s, Rathmines.

CAPTAIN D. J. BELL, the King's Liverpool Regiment, who has been wounded for the second time, is a native of Belfast. He is a brother of Mr. R. G. Bell, 63 Glenrosa Street, and served his apprenticeship to the drug-trade with Mr. William Martin, Antrim Road. He was promoted to a captaincy a few weeks ago.

CAPTAIN STANLEY PRESTON, of the Middlesex Regiment, and younger son of Colonel Alfred Charles Preston (Thos. Hodgkinson, Prestons & King) has been promoted to



D.A.A. and Q.M.G. on the headquarters staff of the 35th Division in France, and is mentioned in Sir Douglas Haig's despatch of this date.

CAPTAIN J. CECIL COOMBS, Oxford and Bucks Light Infantry, attached Trench Mortar Battery, has been awarded the Military Cross for distinguished services in the field. He is the son of Mr. G. J. Coombes, dispensing chemist, Great Missenden. Captain Coombes joined the Public Schools Battalion on its formation, was given a commission as second-lieutenant, went to France, and was promoted lieutenant and captain last May. He has been at the Front for over twelve months.

CAPTAIN J. B. MACKAY, of the Canadian Army Medical Service, is now in London occupying a staff appointment. Five or six years ago Captain Mackay completed his apprenticeship with Mr. John Wright, chemist and druggist, 160 Fountainbridge, Edinburgh, and went out to Canada to better himself. He was not long in pharmacy there, for he found that Canadian pharmacy is not quite so good in regard to hours and payment as Scotch pharmacy is. Mr. Mackay had gifts in regard to accountancy and organisation, and took up this branch of business instead of pharmacy. He was working at it with success when the war broke out. Immediately he enlisted as a private in the Canadian A.M.C., and in due course got his stripes, afterwards his lieutenantcy, and now he is captain, with an exceptionally good piece of organisation-work lying before him to attack and systematise. His commission is a thing to keep in mind. We know scores of pharmacists in the R.A.M.C. who cannot get it. At the end of the war our home folks will have it smart!

#### The late Captain E. H. S. Evans.

Patriotic pride and private sorrow, each natural and creditable, were mingled inextricably at the unveiling, on December 23, of a memorial tablet, erected on the office and showroom staircase of Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, opposite the entrance doors. The tablet (executed by Mr. H. G. Hiller, Liverpool) bears the regimental crest in the centre, as well as badges of Minden and Egypt, to which the Lancashire Fusiliers are entitled. It was subscribed for by about 1,000 employees of the firm, and these assembled to witness the unveiling ceremony: Sir Edward Evans (the new chairman of the company), Mr. William P. Evans (father of the late captain), Mr. C. F. Malvern (general warehouse manager and Chairman of the Memorial Committee), Mr. J. Shacklady (secretary to the company and Hon. Secretary to the Committee), the office, warehouse, and travelling staffs, the departmental managers, and a large number of the rank-and-file—in fact, as many as could be accommodated within sound of the speakers. The inscription on the tablet read as follows:

#### IN MEMORY OF

EDWARD HERBERT SANFORD EVANS

(Second son of William P. Evans, a Director of this Company),  
Captain, 18th Batt'n. Lancashire Fusiliers,  
who was killed in France, July 22nd, 1916.

whilst gallantly leading his Company into action.

#### PRO PATRIA.

This memorial is erected by his fellow-workers as a tribute of respect and admiration.

Mr. Malvern, who presided, read a letter from Lieutenant Colonel McLoughlin (the cashier to the company, who went to the Front with the Territorial Army) stating that he had deposited a wreath on the grave of Captain Edward Evans, which was found to be in good order and about three-quarters of a mile from the road passing through a lovely valley in France. By request of Mr. W. P. Evans, Mr. Malvern also read a passage from the War Speech of the Prime Minister in the House of Commons paying a tribute to the valour of the young men from the schools and counting-houses who had flocked to the Colours. Captain Edward Evans showed, as soon as war broke out, that he felt the call, and he never rested until he had thrown down his pen and taken up the sword. His tablet, and others which were to be placed around it, would be surmounted by a map of the world indicating, marked in red, the British Empire in self-sacrifice for whose preservation Captain Evans, together with employees of the firm, had heroically died.

Sir Edward Evans, in unveiling the tablet, said his nephew, Captain Edward Evans, had been trained in the head offices of the company, and was on the verge of becoming one of the directors when he volunteered for Army service. Mr. William Evans remarked that it was a sad coincidence that he, who had inaugurated about a year ago the tablets which were placed in the departments to commemorate employees who had fallen, should now have witnessed the erection of a tablet to one of his own three sons, who all joined the Colours. The other tablets, which he prayed might not have to be increased in number, would

be collected and placed on the wall around the tablet just unveiled. (Applause.) In each of his letters home the late Captain Evans mentioned with appreciation the officials of the company under whom he had been trained. That assembly indicated a common feeling of amity which should characterise the relations of employers and employed.

#### Miscellaneous.

VAN MINDEN & Co., 35 Leadenhall Street, London, E.C., importers of tinfoil and liquorice. *Controller:* G. Bostock, 21 Ironmonger Lane, E.C.

RUHLEBEN PRISONERS.—Replying to a communication from Mr. John T. Coats, Ph.C., Trinity Road, Leith, who had gained the impression that the camp at Ruhleben was a military one, Bishop Bury writes: "On my recent visit to Germany I was only allowed to visit the civilian camp at Ruhleben, except for a few hours the camp at Blankenburg." The Bishop's visit was much appreciated by the prisoners, one of whom—Mr. G. P. Forrester, F.C.S.—had an interesting conversation with him.

GENERAL HAIG ON CHEMISTS.—In his despatch on the battle of the Somme, General (now Field-Marshal) Haig says: "The employment by the enemy of gas and of liquid flame as weapons of offence compelled us not only to discover ways to protect our troops from their effects, but also to devise means to make use of the same instruments of destruction. Great fertility of invention has been shown, and very great credit is due to the special *personnel* employed for the rapidity and success with which these new arms have been developed and perfected, and for the very great devotion to duty they have displayed in a difficult and dangerous service. The Army owes its thanks to the chemists, physiologists, and physicists of the highest rank who devoted their energies to enabling us to surpass the enemy in the use of a means of warfare which took the civilised world by surprise."

#### Military Tribunals' Decisions.

BOURNE END.—Conditional exemption has been granted to Mr. W. Charles Napier Gibb, dispensing chemist.

EAST HAM.—The application for exemption by S. V. L. Hardford, dispenser and Secretary of the East Ham Trades and Labour Council, was adjourned for a month.

GERRARD'S CROSS.—Six months' exemption was granted to Mr. J. R. Jewson, Ph.C.

HASLEMERE.—Exemption until July 1 was granted to Mr. A. F. Chatfield, chemist and druggist, manager of the Hut's Pharmacy, Hindhead.

KIDDERMINSTER.—Conditional exemption has been granted to Mr. E. J. Bromage, dispensing chemist, Roden Avenue, and Mr. E. G. Trevethick, dispensing chemist, Bull Ring.

MANSFIELD.—The Military Representative secured the withdrawal of the certificate of conditional exemption granted to Mr. G. A. S. Shacklock, chemist and druggist, who assists in his father's business. An appeal was lodged.

OLDHAM.—An employee of Boots, Ltd., who was described as a drug-store proprietor, was exempted until March 1.

OXFORD.—The Military Representative appealed against the three months' exemption granted to Harry E. Green, assistant with Squire & Co., chemists, Queen Street, and the time was reduced to one month.

SHAFTESBURY.—The exemption certificate granted to L. A. Parsons, chemist's assistant, is to be withdrawn on January 25.

SOUTHBOROUGH.—Exemption until July 1 was granted to Horace Miles, assistant to Mr. Geo. E. Green, dispensing chemist.

WALLINGFORD.—Conditional exemption was given to Mr. P. H. McSweeney, chemist and druggist, manager for Mrs. Holme.

WHITBY.—On the appeal of the Military Representative the exemptions granted to Mr. P. W. E. Atkinson, dispensing chemist, and Mr. Chas. Tindale, dispensing chemist, are to be withdrawn on April 2.

WORCESTER.—Conditional exemption was granted to Mr. W. H. P. Grainger, dispensing chemist with George & Welch, chemists.

## Business Changes.

MR. HAROLD E. ANNISON, late of Bowyer & Bartleet, 147 Fenchurch Street, London, E.C., has commenced business at 21 Harp Lane, E.C.

THERMOS, LTD., have removed to Byron House, 2 and 4 Finsbury Street, London, E.C. Mr. H. F. Gribble has been appointed manager, in place of Mr. P. Hayman, who has resigned.

REYNOLDS & SELLERS, Colonial brokers, 9 Mincing Lane, London, E.C., announce that they have taken into partnership their Mr. Alfred John Gooch, who has been connected with Mincing Lane for many years.



## Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

### QUALITATIVE ANALYSIS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, January 9, on which day the samples will be posted. Students' reports will be received up to Saturday, January 20. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the third exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports.

## A Pharmacist at the Front.

### I.

I ENLISTED shortly after I was certified to be a person having "sufficient skill and knowledge to be registered as a chemist and druggist." I concluded that my services would be most appreciated in a sphere where such skill and knowledge could be put to their fullest use; but I was not at that time familiar with the ways they have in the Army. After a few months' initiation into the anomalies of military organisation, I received, without any feeling of astonishment, the intimation that I was detailed, in the capacity of dispenser, to a field ambulance—a unit which, of all branches of the R.A.M.C., is furthest removed from a base hospital (being, in fact, frequently under fire), and whose dispensers are called upon to do almost everything except dispense. It thus comes about that I have seen active service in two of the hottest and most arduous of our Eastern campaigns; and if I have forgotten the dose of hyoscin. hydrobrom., and remember the British Pharmacopœia only as a stockish-looking volume in a cover of impermanent red, I have still quite indisputably gained in directions that may not be pharmaceutical or commercial.

At the seat of war news arrives in a strangely garbled and exaggerated form, and even while still in the patriotic atmosphere of the recruiting-office I began dimly to realise that I had left the stable fields of Fact for the fairy realms of Rumour.

"You'll be going to Chatham," said the Magistrate who had sworn me in, shaking me by the hand. "A dull sort of place, but a fine, bracing air."

"We're sending you to Woolwich," volunteered the clerk, a few minutes later. "But you won't be there long," he added vaguely.

"When'll you be ready to start?" inquired the recruiting-sergeant, thrusting a long, bulky envelope into my hands. "Eh? In ten minutes? Good! Catch the 2.10 for King's Cross; skip across to Waterloo—no loiterin', mind—and jump in the first train for Aldershot. There'll be plenty goin' that way. Give this in at the Depot. Good luck! You'll never regret havin' joined the Service."

And, until disease struck me down on the furnace-flats of Mesopotamia, I never did.

Eight weeks passed in drills, route-marches, and "fatigues," with so much physical exercise in the golden summer weather, and such copious daily draughts of fresh air, that a sort of slumber fell upon my five senses, and I moved like one in a dream. From this state of pleasant stupor I was suddenly awakened one morning by a summons from the adjutant. I was that day, it seemed, by virtue of my civil qualification, to be promoted sergeant; I was to have forty-eight hours' leave, and be ready at

the week-end to proceed abroad to a destination not specified. Truly, events were speeding up.

The night of departure came after the usual postponements; and, having despatched a supper of cold beef and potatoes (the stripes had given me immediate access to the sergeants' mess, and the inevitable stew of the private's diet had given place to the lordly roast), I donned my marching order, shouldered my kit-bag, and mustered my men outside the library. Our draft had been divided into sections. I was now in charge of twenty-one men, and responsibility sat heavily upon my shoulders. During the railway journey I speculated on what would happen if I were called upon to instruct them in squad-drill, or demonstrate the exercises of Swedish drill for their benefit. The more I thought of this the more uneasy I became, but it was with infinite relief that on calling the roll at our port of embarkation I found that not one of my squad had fallen from the train or been left behind in the refreshment-room at —. When we reached — I was unexpectedly relieved of my charges, and, with a sigh of satisfaction, watched them stream down the gangway and disappear shoreward in a pinnace.

We were a mixed crowd on the transport. There was a small hospital aboard, and after a few days at sea a number of men fell sick. I took my turn as ward-master. No deaths occurred during my spells of duty. The ship was full. By a sort of sympathetic attraction I was drawn to the ship's dispensary (in charge of a humorous dabbler in the art and science of pharmacy), and made my bed on a mattress laid on the floor. My choice of sleeping-quarters proved unfortunate, for during the night we ran into foul weather. The first intimation I had of tempestuous seas without was a blow in the chest from a 4-oz. bottle of Howards' quin. sulph., which awoke me as effectually as any professional "knocker-up." I lay and listened. Various things happened, including a roll to starboard, and my mattress, like the magic carpet, carried me swiftly across the floor against a case of dressings in the corner, where I was buried under an avalanche of pills, bottles, tablets, and chip boxes. The sickly-sweet vapours of spirit. æther. nit. filled the cabin. I got up and — I had not taken apomorphine, but I was not surprised that an emotion that voyagers in the same region experienced over 2,000 years before, when on their way to Britain, also afflicted me.

After a week I was transferred to a hospital carrier, the second-class smoking-saloon of which I converted into a dispensary. On taking stock, I found there were no mortar and pestle, no scales, knife, or ointment-slab, no stirring-rods or spatulas, and only one graduated 2-oz. measure, which I guarded as if it were a Kaiser. Some remarkable things were done in that dispensary, also in the first-class music-saloon, where I assisted the surgeon in his operations. For certain reasons we now made for England, spent a little time there, and in certain other places nearer where Adam and Eve used to roam. There for the present I remain.

## Coming Events.

### Sunday, January 7.

Pharmacists' Volunteer Corps, Duke of York's, Chelsea, S.W., at 9.30 A.M. Staff parade, 11 A.M. Sanitation lecture by Q.-M. Sergt. Luke, 12 noon. First-aid lecture by Dr. Durno for Section 5 and recruits. On Wednesday and Thursday, at 2.45 P.M., classes in First-aid will be held at 17 Bloomsbury Square, W.C.

### Tuesday, January 9.

Eastbourne Pharmacists' Association, 2A Terminus Buildings, at 8.30 P.M. Ordinary meeting.

Glasgow and West of Scotland Chemists' Association, Technical College, George Street, Glasgow, at 2.30 P.M. First lecture of course on bacteriology, by Dr. Ellis.

### Wednesday, January 10

Birmingham Pharmaceutical Association, Imperial Hotel, Temple Street, at 8.30 P.M. Mr. O. T. Elliott, Ph.C., F.R.M.S., lantern-lecture on "Germ Diseases and Immunity."

Manchester Pharmaceutical Association, 65 Market Street, at 8 P.M. Social meeting.

Newcastle-upon-Tyne Pharmacists' Association, Church Institute, Hood Street, at 6.30 P.M. Dr. T. M. Allison, "Some Thoughts on the War."

### Thursday, January 11.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Informal meeting.

GLASGOW PHARMACY GOLF CLUB.—A smoking-concert and distribution of prizes will be held on January 16. Tickets, 1s. 6d. each, from Mr. J. Halliwell, 312 Cathcart Road, Glasgow.



## English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

### An Alcohol Committee.

An Advisory Committee has been appointed by the Minister of Munitions to consider the best means to be adopted for securing adequate supplies of alcohol for war purposes and the essential industrial trades. The new Committee includes the leading men in the trade, representatives of the large patent-still or grain distilleries, the malt or pot-still distilleries, the rectifiers, and the methylators. The Board of Agriculture, the Board of Customs and Excise, the Board of Trade, and the Ministry of Munitions each have a representative on the Committee. The Chairman is Sir Frederic Nathan, Director of Propellant Supplies, and Mr. W. H. Rattenbury, Explosives Department of the Ministry of Munitions, 32 Old Queen Street, S.W., is the Secretary.

### Birmingham.

Watson & Son, opticians, Easy Row, have established an effective subdued lighting in red which shows up their microscopes and other scientific instruments well without contravening the lighting order.

Private Coghill, reported missing on July 23, 1916, is now presumed to have been killed in action on that date. He was engaged at Capon, Heaton & Co., Ltd., Stirehley, the well-known rubber-goods manufacturers.

Owing to the abnormally high death-rate in Birmingham, due to the remarkably changeable weather, and the depletion of cemetery staffs, burials have had to be conducted in rotation, and often delayed several days.

Mrs. Malaprop appeared at the Police Court during Christmas. "I've given five sons to the Army," said an elderly woman of the lower class, charged with having imbibed too freely, "Four of 'em's at the Front and one's passed for dysentery work at home!"

Mr. Joel Cadbury, who died suddenly ten days ago, was greatly interested in the provident dispensaries of Hockley, Sutton, and other places. He favoured the appointment of lady dispensers at these institutions and the Birmingham Medical Mission, Floodgate Street.

The sale of electric flashlights for use on dark nights has become an important side-line with almost all traders. Pharmacists have entered the lists, and even the tailors of New Street sell both the lights and the refills. It is a useful hobby to make one's own refills, and much is saved thereby, for they sell at 10d. each.

Private E. Taylor, Royal Warwickshire Regiment, previously reported missing, now reported killed, was, prior to joining one of the City Battalions in 1914, employed by Blackwell, Hayes & Co., chemists, Moor Street. He was a member of the Brookfields United Methodist Chapel, and had been at the Front since November 1915.

Southall Bros. & Barelay, Ltd., have placed on the directorate Mr. E. W. Mann, Ph.C., B.Sc., F.I.C., and Mr. Hippkiss, both of whom have served the long apprenticeship of nearly thirty years in the several departments of this great business. The firm have just spent 20,000*l.* on building and fitting their Alum Rook laboratories, and mean to get more of the German chemical trade in the near future.

Lieutenant Bannison, who is a Ph.C., and is called by the "Birmingham Post" "the indefatigable quartermaster of the 1st Southern General Hospital" at Bournbrook, played the rôle of Father Christmas on the festive eve. Heralded by a piper, and attended by a retinue of gorgeously and fancifully arrayed sergeants, he made the tour of the wounded soldiers' wards, distributing Messrs. Cadbury's gifts of chocolate.

The Birmingham Chamber of Commerce, having purchased a large block of buildings in the centre of the city, took possession of it last week. The building has cost 50,000*l.*, and provides adequate office accommodation, committee and conference rooms, a large hall for public meetings, a comprehensive commercial library, rooms for the use of members for social and business purposes, and a sample-room or museum.

The "Birmingham Daily Mail" Christmas-tree Fund has reached the record sum of 4,000*l.* It is due to this Fund that a well-known pharmacist and his wife were able to call at a certain Council school and take forty poor, almost bootless, children on the trams to Needless Alley to be booted and supplied with warm stockings; also thence to the coffee-house to be regaled with coffee and buns, and returned safely to the schools

by tram in time to secure their usual attendance-mark. The shopping public were startled at the lusty three cheers for the Fund called for by the pharmaceutical shepherd and his lady in the very heart of the city.

A meeting of pharmacists and others interested in pharmacy and the allied trades will be held on January 9 at the Midland Institute, Paradise Street, to inaugurate a Chemists' Volunteer Field Ambulance. The chair will be taken at 8.30 by Mr. Wilfred Hill. Over a hundred persons have already signified their desire to join the organisation, and it is hoped that as a result of this meeting sufficient support will be received to enable the Corps to commence with a full complement. It is proposed that the first drill shall take place on January 10 at Thorpe Street Drill Hall at 5.30 p.m., afterwards drills and lectures will be held on Wednesdays (5.30 to 5.50), Fridays (8.30 to 10 p.m.), and Sundays (11 to 1), and a course of lectures on bacteriology will be given by Mr. O. T. Elliott, Ph.C. Lieut.-Colonel J. T. J. Morrison has accepted command of the Corps.

### Liverpool.

A further and publicly announced change in the night mails has led to a lot of too-late posting this week. The advice: "Post during daylight" is the best that can be offered to pharmacists ordering supplies from London or any distant source.

The C. & D. biographical notice of Mr. John J. Evans has led to tributes and lengthy quotation in the local daily Press. Owing to the inclement season Mr. Evans was unable to attend the ceremony of unveiling a tablet to the memory of his nephew, Captain Edward H. S. Evans, on December 29.

New Year's Day was observed, generally speaking, as a half-holiday by the wholesalers, and partially so by the retailers, some of the latter preferring to take the half-day on the Monday rather than on Wednesday. One wholesale firm closed both on Saturday and Monday, thus giving employes a final chance of a week-end outing at the old rate of return fares.

The retail chemist and druggist does not rank second to any tradesman in being asked to solve popular difficulties. With the chaos on the railways, he is beset to fish out the trains by which soldiers on leave, or other occasional travellers, are to cross country. A soldier who actually proposed to take train from Liverpool to Banbury in order to reach Cambridge was directed to Bletchley.

As a shopping centre for a large slice of Lancashire, most of Cheshire, and North Wales and North Staffordshire, Liverpool stands to suffer rather seriously by the cutting-down of the train services and the sudden advances of fares. The actual increase of the fares is 50 per cent. on the former two single fares, and this works out to 100 per cent. out of pocket. Liverpool will have to work the retail trade more largely through the post, and by calling on clients.

On Thursday, December 14, a party of students from the Northern College of Pharmacy, Manchester, and from the Pharmaceutical Department of the Victoria University, visited the works of Evans Sons Lescher & Webb, Ltd., Liverpool. On reaching the offices they were divided into two parties and conducted round the laboratories. Many interesting processes were seen, including the production of articles formerly the monopoly of German chemical firms. After the inspection of the works the party was entertained to tea at the Bear's Paw restaurant, when Mr. James Grier and Mr. E. G. Bryant expressed the thanks of the visitors, the vote being acknowledged by Mr. Nall.

A rather serious increase in pilfering from the counters, cases, and drawers of chemists' shops is reported, the darkening order conducing to these thefts. Men, women, and children are among the delinquents. The adult thieves select costly articles for personal consumption, choice perfumes, lavender-water, medicinal tablets, safety-razors, and brushes being prominent. Boys and girls make such mistakes as to burden themselves with bromo-quinine preparations, which they must needs cast away. Side by side with the thefts are other tricks calling for increased vigilance. A pharmacy door could only be opened one morning this week by a locksmith, who found the broken wards of a skeleton key in the lock, which since has been duplicated as a safeguard. Into the same shop on Monday dashed a man stating that a police constable had sent him to borrow a chair, to use as a temporary rest for the victim of a tramcar accident. The fellow was ordered out of the shop. But by the same device of a "bogus" accident he purloined a chair from a neighbouring tradesman. The pharmacist has still his own pair of chairs (for which he has refused 20*l.*) intact, but he has lost many glasses handed out full of water for fainting women, real and imaginary.



**Sheffield.**

Panel chemists should note that the new Insurance Formulary came into force this week, and that the two previous editions are cancelled. The ten stock mixtures are given on the last page.

Dr. R. B. Greaves, chemist and druggist, has an interesting relic in the shape of a receipt for a payment by his great-grandfather, an ironmaster in Macclesfield, on December 26, 1816, of 3*l.* 6*s.* 11*d.* for sugar purchased at 13*d.* per lb. Dr. Greaves was the proprietor of the Sheffield College of Pharmacy, now closed.

In many cases records have been made in their Christmas sales by pharmacists, especially in working-class districts. The restricted hours for the sale of wines have caused a great amount of trouble both to the chemist and customer, and the sales in this branch have been materially reduced.

**Contracts.**

The following have been accepted since we last reported: Brighton Guardians.—Baiss Bros. & Co., Ltd., drugs. Camberwell Guardians.—The Apothecaries' Society, drugs and tinctures.

Cambridge Guardians.—Mr. J. Evans, drugs. Dover Town Council.—Sanitas Co., Ltd., Newton, Chambers & Co., Ltd., and Mr. A. L. Thompson, disinfectants. Headington Guardians.—Mr. H. O. Oddy, drugs. Maidstone Guardians.—Mr. F. J. Oliver, drugs. Salford Town Council.—Evans Sons Lescher & Webb, Ltd., Liverpool, serums to the Ladywell Sanatorium. Watford Guardians.—Messrs. Chater, drugs and surgical dressings. West Bromwich Guardians.—Burgoyne, Burbidges & Co., drugs.

**Miscellaneous.**

THE LAST POSTAL DELIVERY in the E.C. district of London will be between 4.30 and 5. This means that few letters posted in the provinces in the early morning can be received in the city in time to reply that night.

HIGHER FEES FOR DOCTORS.—The Newcastle Division of the British Medical Association has decided to increase fees for ordinary medical attendance from 15 to 20 per cent, owing to the increased cost of living, drugs, servants, etc.

COMMERCIAL TRAVELLERS' RAILWAY TICKETS.—The Board of Trade has decided to receive on Tuesday, January 9, a deputation arranged and introduced by Mr. Fred Coysh, General Secretary of the United Kingdom Commercial Travellers' Association.

CAMBERWELL BOARD OF GUARDIANS have decided to continue the closing of their dispensaries at 6.30 p.m. instead of seven o'clock. The experiment of early-closing was tried for a short time and found to work satisfactorily. Brandy is in future to be issued from the dispensaries.

TRADE BENEVOLENCE.—The fourth annual meeting of the benevolent fund in connection with W. Meadowcroft & Son, soluble-essence manufacturers, Regent Street, Blackburn, was held last week. There has been a surplus of income over expenditure each year since the fund was inaugurated, and the fund at the present time amounts to 1,834*l.* Mr. F. Birtwistle, the Secretary, stated that through the generosity of the firm in paying war allowances it had not been necessary to draw upon the fund in order to assist the dependants of members of the staff. The firm had made a grant of 200*l.* to the fund during the year.

TREATMENT OF VENEREAL DISEASES.—At a meeting of the Ashby-de-la-Zouch Board of Guardians on December 30, Mrs. Pratt, as a delegate, reported on her visit to the annual meeting of the Poor-law Unions Associations. Referring to the new campaign for the suppression of venereal diseases, she stated that the first thing needed is the stoppage of the sale of quack medicines and the treatment of the diseases by unqualified practitioners. Dr. Atkinson, another guardian, said he would make it criminal for quacks, herbalists, chemists, and others not qualified to deal with the disease. The Chairman said it is only proposed at present to prohibit advertisements of remedies for venereal diseases.

POISONINGS.—The following cases have been reported during the week: Dr. W. H. Iddon, of Southport, committed suicide with strychnine nitrate while of unsound mind due to overwork.—A Rugby housekeeper, while under the influence of gin, drank a large quantity of spirit of salt by mistake, and death ensued. "Death by misadventure" was the verdict at the inquest.—The Dublin City Coroner held an inquest last week regarding the death of Maria Groome, who was found to have taken carbolic acid in mistake for a beverage. The poison had been obtained from Mr. Corcoran's pharmacy, Talbot Street,

Dublin, Mr. Thomas O'Reilly, the assistant who supplied it, having complied with the requirements of the Pharmacy Act.

DRUGS IN ESSEX.—A quarterly report to the Essex County Council states that in consequence of the large demand for and expensive price of various drugs a rather large number of samples of drugs was taken during the quarter—fifty-five in all—including four samples of medicine dispensed from prescriptions. All of these drug-samples were satisfactory except two. One of these was a sample of "Orange Quinine-wine," which bore a printed label stating that it was "prepared in accordance with the requirements of the British Pharmacopœia." It contained, however, only three-fifths of the quantity of quinine laid down for quinine-wine. The other unsatisfactory sample was medicine (made up from a prescription) in which the quantities of two of the ingredients were approximately transposed—probably owing to lack of care in reading the prescription.

**Scottish News.**

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

**Edinburgh.**

Lieutenant-Colonel H. A. Rose, Royal Scots, has been awarded the D.S.O.

Mr. Rutherford Hill, Ph.C., was one of the speakers at the annual meeting of the Edinburgh Magdalene Institution held last week.

At the annual meeting of the Corporation of Squaremen on January 1, Mr. Walter G. McNab's (Gorebridge) proposal that Mr. Victor Wright be elected apothecary was adopted.

**Glasgow.**

"Judging by the output of chemicals it has been a wonderful year," said the "Glasgow Herald" on December 30. One of the head men on the staff of the "Herald" was formerly attached to the C. & D.

At a meeting of the Wigtownshire Dairy Association, the Chairman read a letter from the Principal of the West of Scotland Agricultural College, stating that a firm in London, which furnishes the bulk of the rennet used by the cheese-makers in this country, expected to supply all their regular customers with their usual requirements during 1917 unless the Government put restrictions on importation. The price, however, may be higher. The College suggested the employment of pepsin as an alternative to rennet, recommending about ½ oz. to 100 gals. Pepsin has been tried in the United States, where the shortage of rennet was serious last year, and reports were quite favourable on the whole. The College itself has no experience with pepsin. The Chairman added that the price of rennet is now 50*s.* per gal., compared with 8*s.* 6*d.* before the war.

**Irish News.**

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

**Brevities.**

Thos. McMullan & Co., wholesale druggists, Belfast, have converted their former retail department in Ann Street and Victoria Street into a suite of offices.

At the Cork City Police Court, Robert Davidson, manager of the Shandon Chemical Works, was committed for trial on a charge of misappropriating ninety barrels, value 20*l.* Sir Stanley Harrington, managing director of the Shandon Chemical Works and the Cork Chemical and Drug Co., gave evidence that the barrels belonged to his company, and Mr. Henry McGhie, of McGhie & Co., Glasgow, said his firm bought the barrels from defendant and forwarded the money to his private address. The solicitor for the accused said the selling of the barrels is a trade custom.

THYMOL.—An effort is being made in Florida to produce thymol commercially from horsemint (*Monarda punctata*). A Bulletin (No. 372), issued by the Bureau of Plant Industry, U.S. Department of Agriculture, states that the annual consumption of thymol in the United States is sufficiently great to warrant a small industry for its production when carried on in connection with the distillation of other volatile oils.



## Legal Reports.

**Arsenic in Baking-powder.**—At the Grimsby County Police Court on January 2, Hunters, Ltd., grocers, Manchester, were fined five guineas, with three guineas costs, under the Sale of Food and Drugs Act, 1875, Section 6, for selling baking-powder which, the County Analyst had certified, contained 10 parts of arsenic per million. For the defence Mr. S. J. Bradwell, a director, explained that before the war tartaric acid was used in the manufacture of the powder, but as the price of this had increased their chemists had come along with an acid phosphate which was said to produce the same result. They used the phosphate, and then came the difficulty that it contained a minimum amount of arsenic.

**"Myrtle" Brand Corn-paste.**—At Brighton on December 22, Charles John Coley was summoned by the Customs and Excise in respect to four offences under the Medicine Stamp Acts in respect to the sale of "Myrtle" corn-paste, a remedy for corns. On his behalf it was explained that it was only on August 6, 1916, that defendant had any knowledge or idea of the Acts, or that he was contravening any regulation in offering his corn-paste for sale. When it was brought to his notice he took expert advice, and altered his labels. He did not know it was necessary to have the box stamped. In October he received a letter from the Customs, in which they agreed that if he posted on to them 1*l.* by way of a fine, and in lieu of duty unpaid, and would in future keep to the regulation in the sale of the paste, they would be satisfied. Apparently defendant gave the required undertaking, and on November 3 took out a licence, and posted a one-pound Treasury note to the Secretary, but that appeared not to have reached its destination, and he was served with the summons. The Bench imposed a fine of 1*l.* for selling without a licence on August 24, and dismissed the other informations, on payment of costs.

## New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

**SMITHS (WELLINGTON), LTD. (P.C.).**—Capital 2,000*l.* Objects: To carry on the business of brush-makers, etc. The subscribers and first directors are T. Smith and H. Wilde. R.O., 47 High Street, Salop.

**ALLIED SYNTHETIC APPLIANCES AND PRODUCTS CO., LTD. (P.C.).**—Capital 100*l.* Objects: To carry on the business of chemists, druggists, drysalts, etc. P. M. G. Marechal and H. Chazal are the subscribers and first directors. R.O., 17 Green Street, Leicester Square, W.C.

**ALFRED OLSEN & CO. (LONDON), LTD. (P.C.).**—Capital 20,000*l.* This company of mineral-oil manufacturers takes power to carry on business as chemists, druggists, drysalts, etc. H. S. Morris and E. C. Vincent are the subscribers. R.O., 101 Leadenhall Street, E.C.

**PARKINSON & CO.'S PHARMACY, LTD. (P.C.).**—Capital 750*l.* Objects: To take over the business of Parkinson & Co., Spring Grove Pharmacy, Isleworth, and to carry on the business of chemists and druggists, drysalts, etc., and to enter into an agreement with R. A. Wenn. The subscribers are R. A. Wenn and H. J. Parkinson. Solicitor, D. Rawlinson, 9 New Road, Oxford.

**CAMBRIAN ARTIFICIAL LIMB CO., LTD. (P.C.).**—Capital 5,000*l.* Objects: To adopt agreements with N. J. H. Kenney, and to carry on the business of anatomical mechanicians, makers of artificial limbs, surgical and orthopaedic appliances, etc. The subscribers and first directors are Lord Rhondda, Lady M. H. Mackworth, and N. J. H. Kenney (general manager). R.O., 92 Queen Street, Cardiff.

**HAROLD E. ANNISON & CO., LTD.**—Capital 5,000*l.* Objects: To carry on the business of manufacturing chemists, druggists, oil merchants and refiners, manufacturers of drugs, chemicals, oils, chemical and scientific instruments and apparatus, patent medicines, etc., and to enter into an agreement with H. E. Annison. The subscribers are A. W. Lucas and T. J. Hyne. R.O., 20-21 Harp Lane, E.C.

**ASSOCIATION OF BRITISH CHEMICAL MANUFACTURERS.**—(The word "Limited" is omitted from the title by licence of the Board of Trade). A company limited by guarantee with an unlimited number of members, each liable for not more than 25*l.* in the even of winding up, to promote co-operation between British subjects engaged as manufac-

turers in the chemical or closely allied industries; to place before Government and Government officials and others, either in the British Dominions or elsewhere, the views of members of the Association and others upon matters affecting the chemical industries; to develop technical organisation; to promote industrial research, industrial efficiency, and the advancement of applied industry, etc. The management is vested in a Council consisting of not less than sixteen, or more than twenty, the first members of which are: Dr. E. F. Armstrong (Joseph Croftfield & Sons, Warrington); F. H. Carr, F.I.C. (director Boots Pure Drug Co., Ltd., Nottingham); Dr. C. Carpenter (President Society of Chemical Industry); Dr. M. O. Foster, F.R.S. (British Dyes, Ltd., Huddersfield); J. Gray, F.I.C. (managing director Lever Brothers, Ltd., Port Sunlight); C. A. Hill, B.Sc., F.I.C. (chairman The British Drug Houses, Ltd., Graham Street, N.); N. N. Holden (managing director Hardman & Holden, Ltd., Manchester); D. L. Howard (Howard & Sons, Ltd., Ilford); C. P. Merriam (managing director The British Nylonite Co., Ltd., Hale End); Sir Alfred M. Mond, Bart., P.C., M.P. (chairman Mond Nickel Co., Ltd., Westminster); Max Muspratt (chairman United Alkali Co., Ltd., Liverpool); R. G. Perry (chairman Chance & Hunt, Ltd., Oldbury); Sir William Pearce, M.P. (director Spencer, Chapman & Mossel, Ltd., 36 Mark Lane, E.C.); R. D. Pullar (chairman Pullar & Sons, Ltd., Perth); A. T. Smith (managing director Castner-Kellner Alkali Co., Ltd., Liverpool); J. W. Wilson (Albright & Wilson, Ltd., Oldbury); Dr. A. Ree (President Society of Dyers and Colourists, Withington, Manchester). There are to be "Group" Committees, each consisting of not less than three members, representing: Group 1: Acids (including acetic and oxalic), carbonic acid, hydrogen, oxygen and gases, alum, chrome, zinc, copper and iron compounds, fertilisers (including superphosphates). Group 2: Alkalis, cyanides, chlorine and compounds, silicate, chlorates, borax, hydrogen peroxide, magnesia compounds (not medicinal). Group 3: Fats, greaves, waxes, resins, glycerin, soap. Group 4: Gelatine, sizes, glue, varnishes, paints, polishes, tanning. Group 5: Distillation of coal, shale, oils and wood, alcohol, acetone, coal-tar primary products (including ammonia and ammonia products), charcoal, fuel. Group 6: Fine chemicals, analytical, pharmaceutical, photographic, rare earths, synthetic essences and perfumes, alcohol derivatives, ethers. Group 7: Phosphates, manganese, potassium, sodium, barium, calcium, cerium, etc., lead, arsenic, antimony, tungsten, molybdenum, etc. Group 8: Cellulose products (including paper), celluloid, rubber and substitutes. Group 9: Explosives, and dyes and their intermediates. Group 10: Glass, porcelain, pottery, refractory materials, lime, cement, chemical-resisting materials. Group 11 (Allied industries): Bleachers, dyers and textile printers. Solicitors: Markby, Stewart & Co., 57 Coleman Street, E.C.

**NATIONAL DRUG CO., LTD.**—Mr. G. E. Corfield, Finsbury Pavement, E.C., was appointed receiver on December 18.

**A. J. WHITE, LTD.**—The directors intimate that, although the result of the trading for 1916 compares favourably with that of the previous year, they consider that distribution of profits should be postponed until the annual meeting in June 1917.

**McKESSON & ROBBINS**, New York, was on January 2 incorporated there under the name of McKesson & Robbins, Incorporated. The officers in the company include Mr. John McKesson, Jun., President; Mr. Herbert D. Robbins, Vice-President; Mr. George C. McKesson, Vice-President; Mr. Irving McKesson, Treasurer; Mr. Donald McKesson, Secretary; and Mr. Saunders Norvell, Chairman of the board of directors.

**JOINT-STOCK COMPANIES.**—The "London Gazette," December 15 and 18, notify that the names of the undermentioned companies have been struck off the Register, and such companies are dissolved: Blue Bottle Liquid Blue, Ltd.; Coggeshall Waters, Ltd.; Curexa, Ltd.; Diatomite & Kieselguhr Finance, Ltd.; Dr. Charles A. Tyrrell, Ltd.; French's Drug-stores, Ltd.; Private Nursing Association, Ltd.; Research Laboratory, Ltd.; Reversible Bifocal (Germany), Ltd.; Strand Chemical Co., Ltd.; United Kingdom Non-alcoholic Breweries (Knights), Ltd.; West Bromwich Oil and Chemical Co., Ltd.; "Adesa" Perfection Silver-Cleaning Powder Co., Ltd.; British Board of Food Purity and Hygiene, Ltd.; Canton Bone and Soap Works, Ltd.; Chemicals, Ltd.; Germproof Copra Co., Ltd.; Gidea Park Mineral Water Co., Ltd.; Glasswares Syndicate, Ltd.; (New) Plantoids, Ltd.; Radium Water and Food Products, Ltd.; Rosser's Physical Culture Institute, Ltd.; Sanaglobin Co., Ltd.; Scientific Researches Co., Ltd.; Sterilised Copra Syndicate, Ltd.; Vegetable Oil Concessions, Ltd.; and Witton Pharmacy and Drug Co., Ltd.



**LEVINSTEIN, LTD.**—The ordinary annual meeting was held at Manchester on December 28. Sir John Lonsdale, Bart., M.P. (chairman of directors), presided, and in his statement said that at the beginning of the war the company had but one factory; to-day, counting the plant which has been erected in America for the manufacture of certain specialities, they owned four factories, in which over 500,000*l.* is invested. The dividend of 30 per cent. on the ordinary share capital of 60,000*l.*, which had already been paid out of the profits for the year, represented in fact a very small percentage on the actual capital employed in the undertaking. Sir John regretted that the late managing director, Mr. Ivan Levinstein, who founded the works at Blackley in 1865, had not lived to see the fruition of his work. For years Mr. Levinstein strenuously fought for this industry, and for the reform of our patent laws. He died in March of this year, and it is interesting to note that in a special article published in an important German journal he was referred to as "a life-long fanatical opponent of German industry." Reference was made to the acquisition of the Ellesmere Port factory of Meister, Lucius & Brüning; the works were running satisfactorily, and producing indigo of excellent quality in large quantities. The old-established business of Claus & Co., Ltd., aniline-dye manufacturers, Clayton, Manchester, had also been purchased by the company, and the valuable services of Mr. Claus had been secured as a member of the board. Another enterprise in which Levinstein, Ltd., are interested is the "Industria Nazionale Colori di Anilina" in Italy—a company which commands powerful financial and official support. The object of the Italian company is to create a large dye-industry in Italy in order to render the importation of German dyestuffs unnecessary. The technical direction of the new concern has been vested in Levinstein's, who have a considerable financial interest in its success. Sir John Lonsdale was re-elected a director, and Mr. Claus was added to the board.

## Birth.

**PEARS.**—At 4 Hamilton Mansions, King's Gardens, Hove, on December 26, the wife of H. W. Kilby Pears, Ph.C. (managing director Standard Tablet and Pill Co., Ltd.), of a daughter.

## Marriages.

**BOWN—NAYLOR.**—At Christ Church, Ecclesall, Sheffield, on January 1, H. Bown, chemist and druggist, Cemetery Road, Sheffield, to Gertrude Naylor, daughter of Mr. H. Naylor, Victoria Road, Broomhall Park, Sheffield.

**HUSTON—CHARLES.**—At Emmanuel Church, Loughborough, on January 3, by the Rev. R. H. Fuller, Captain C. E. Huston, M.R.C.S., A.V.C., The Mall, Armagh, to Dorothy, only daughter of Councillor W. F. Charles, The Nook, Loughborough.

**JEPHCOCK—COWELL.**—At Saffron Walden, Essex, on December 27, Charles Josiah Jephcott, chemist and druggist (of Folkestone), to Gertrude Mary Cowell, of Saffron Walden.

**ROBERTSON—WALKER.**—In the Palace Hotel, Aberdeen, on December 27, Lieutenant Robertson, A.R.O., son of Mr. Alexander Robertson, manufacturing chemist and pharmacist, Oban, to Ethel Mary, daughter of Mr. Adam Walker, Mildren, Banff.

## Deaths.

**BEST.**—At 178 Newland Avenue, Hull, on December 25, Mr. Robert Best, chemist and druggist, aged seventy-one.

**DILLON.**—At Loughrea, co. Galway, on December 27, Mr. Robert Joseph Dillon, Ph.C., The Pharmacy, Main Street. He was the son of Mr. M. J. Dillon, Listowel, and passed the Licence examination in 1910.

**GRAVES.**—At Mansfield, on December 31, after a short illness, Ellen Blanche, the wife of Mr. Wm. Graves, chemist and druggist, late of Clown.

**GREEN.**—At 94 Lower Marsh, Lambeth, London, S.E., on December 12, Mr. William James Green, chemist and druggist, aged fifty-eight.

**GREENWOOD.**—At Lye, Stourbridge, on December 25, after a long illness, Mr. George Greenwood, chemist and druggist, aged sixty-four. He was a native of Sheffield; he went to Lye in 1893, and took over the business of the late Mr. Perry.

**BERNARD.**—At Inniscorrig, Dalkey, co. Dublin, on December 27, Mr. John Isaac Bernard, Ph.C., aged fifty-eight. Mr. Bernard was born in Dublin, and



MR. J. I. BERNARD.

and apprenticed at the age of thirteen with Boileau & Boyd. Afterwards he was appointed manager of the Merrion Row branch (Boyd & Goodwin), and in 1880 passed the Licence examination of the Pharmaceutical Society of Ireland. For ten years he managed the Clare Street Medical Hall for Dr. Price's executors, which he acquired about 1894. This business was founded by Donovan on the other side of Clare Street, the fittings being moved to No. 26. The Medical Hall was splendidly equipped, and the business ranks as one of the best in Ireland, its proximity to Merrion Square ensuring a good prescription practice and connection among consultants. Mr. Bernard in 1880 founded one of the earliest Assistants' Associations in Dublin. For the Pharmaceutical Society he acted as an examiner, and was in due course returned as a member of the Council of the Society, becoming Vice-President in 1900, and serving in that capacity for two years. When the British Pharmaceutical Conference visited Dublin in 1901, Mr. Bernard was the Honorary Local Secretary, and well he did the work that fell to him. He was very popular with all classes, and in early life took considerable interest in athletics, winning laurels when an apprentice as a pedestrian by his record of a mile in 6 minutes 57 seconds. He was very intimate with the Du Cros family, and helped them in their early athletic and bicycling days. A broken knee, owing to overstrain while hurdle-racing, ended his athletic career and left a permanent lameness. He was the owner of Trench's Remedy for epilepsy. He had also many interests outside pharmacy, which enabled him to take a broad view of life. Mrs. Bernard survives him. The funeral took place at Deans Grange, Monkstown, on December 30. Among those present at the funeral were Sir Thomas Robinson, J.P., Ph.C., Mr. G. D. Beggs (Treasurer of the Pharmaceutical Society), Mr. H. P. Beggs, Ph.C., Mr. Henry Conyngham, Ph.C., Dr. A. J. Barnes, Mr. J. H. Boardman, and Mr. J. S. Starkey. The Pharmaceutical Society sent a wreath of flowers.

**CLARKE.**—At the Grove, Ipswich Road, Norwich, on December 24, after a long illness, Mr. Frank Clarke, formerly director of The British Drug Houses, Ltd., aged fifty-nine.

Mr. Clarke was the second son of Mr. Frederick Clarke, Norwich, and on leaving school was apprenticed to a firm of wholesale druggists in that city. Subsequently he became associated for a short time with Raimes, Blanchard & Co., Edinburgh, but in the early 'eighties succeeded Mr. Aubrey, who had for many years been the representative in Scotland of Hodgkinson, Treacher & Stead, London. This position Mr. Clarke filled until the end of 1885, when he was succeeded by Mr. S. G. Crowden, Mr. Clarke taking up the Hodgkinson representation in the Midland counties. In July 1887, on the retirement of Mr. Stead, he became a partner in the firm, the trading name changing to Hodgkinson, Treacher & Clarke; and when Mr. J. Slinger Ward became later a partner along with Mr. Charles Hodgkinson and Mr. Clarke, the firm name was changed to Hodgkinsons, Clarke & Ward. Mr. Clarke continued to take an active participation in the management of the business at Whitecross Street until Hodgkinsons, Clarke & Ward was amalgamated with the Davy Hill business at Park



MR. F. CLARKE.



Street, Southwark, in 1906, continuing as a director of Davy Hill & Hodgkinsons, Ltd., and in a similar capacity served on the board of directors of The British Drug Houses, Ltd., from its foundation on January 1, 1909, when Barron, Harveys & Co. and Hearon, Squire & Francis were also amalgamated in the business. Mr. Clarke continued his work with the company until a breakdown in health compelled his retirement in April 1912. He was a charming man, with exceptional gifts as a musician, and in social events connected with pharmacy, especially in the North Country, he was often called upon to entertain an audience. He and Mrs. Clarke (who survives him) occasionally attended meetings of the British Pharmaceutical Conference. The funeral was at Witton, Norfolk, on Saturday, December 30, when Mr. Chas. A. Hill, Mr. Alan Hicks, and Mr. Alan Francis attended as directors of The British Drug Houses, Ltd.

HUMFREY.—At Deal, on December 27, Mrs. Humfrey, wife of Mr. W. H. Humfrey, chemist and druggist, 69 Beach Street, Deal, aged forty-four.

HUNTER.—At 50 Park Road, Glasgow, on January 1, Katherine Hunter, late of The Leopold, widow of John Hunter, druggist, Oban.

KIRTON.—At 53 Savile Street, Hull, on December 27, Mr. Christopher Henry Kirton, Ph.C., aged sixty-three. Mr. Kirton, who died after a short illness from double pneumonia, had been in business at Hull since 1855, when he succeeded to his father's business. He leaves a widow and three sons.

LEMMON.—At Billingshurst, Sussex, on December 11, Ellen, wife of Mr. George F. Lemmon, chemist and druggist, Billingshurst.

RICHARDSON.—At Russell House, Gladstone Road, Chesterfield, on December 25, Mrs. Richardson, widow of Mr. Henry Richardson, chemist and druggist, aged sixty-six.

ROBINSON.—At Goldwell House, Chesterfield, on December 30, Mr. Charles Portland Robinson, aged seventy-two. Mr. Robinson, who was Mayor of Chesterfield in 1902, was a director of Robinson & Sons, Ltd., surgical-dressings and cardboard-box manufacturers, being especially identified with the cardboard-box-making departments at Holmebrook Works. He was appointed a county magistrate for the Chesterfield Petty Sessional Division in 1906. The funeral took place on January 2.

TATE.—At 11 Birchwood Road, Tooting Bec Common, London, S.W., on December 25, Mr. Anthony Tate, chemist and druggist, aged forty-eight. Mr. Tate was the son of the late Mr. Johnson Tate, and was apprenticed to Sarsfield & Co., Market Place, Durham, after which he came to London as a pupil of the late W. Watson Will, passing the Minor examination. He was greatly devoted to Mr. Will, and was a good friend to the Metropolitan College. After qualifying, Mr. Tate went out to Kimberley, Cape Colony, to manage the business of his uncle there (Mr. Anthony Davidson), but after three years returned to London, and took a situation with Hooper, Struve & Co., 7 Pall Mall East; then he purchased the pharmacy of the late W. Murton Holmes, Belgrave Mansions, Victoria, S.W., but through ill-health was compelled to dispose of the business about four years ago, when he went to reside at Herne Bay. Mrs. Tate survives him.

TULLY.—At The Myrtles, Herne Bay, on January 1, Mr. John Tully, chemist and druggist, aged sixty-five. Mr. Tully, who had suffered for some time from a painful illness, was formerly in business at West Hill, Hastings, and Tunbridge Wells. He will be remembered by the older generation of pharmacists on account of his postal system of instruction for the Minor examination, and for the active part he took in the advancement of pharmacy for many years.

WHITTAKER.—On December 27, Mr. J. H. Whittaker, chemist and druggist, Deardengate, and 11 Park Street, Haslingden, Lancs, aged thirty-four. Mr. Whittaker died from pneumonia after a few days' illness.

WORFOLK.—At 3 Croxted Road, Dulwich, London, S.E., on January 1, Mr. George William Worfok, chemist and druggist, aged sixty-seven. Mr. Worfok was a good man and an excellent pharmacist, who spent the greater part of his pharmaceutical life in a pharmacy in Broad Street, Ilkley, and in consequence took a keen interest in the work of the Leeds Chemists' Association, as well as in national pharmaceutical work, especially that of the Proprietary Articles Trade Association. His good sense and sound judgment commanded respect. He left Ilkley in order that his wife might get the benefit of the milder climate in the South. When she died he took a business in Great Bradfield, Essex, but a few months ago he himself had to give up, and he went to live with his son-in-law, Mr. Herbert

A. Mills, Ph.C., F.C.S., 3 Croxted Road, Dulwich, S.E., where he died.

WYLDE.—At 48 Prestbury Road, Macclesfield, on December 20, Mr. Samuel Roe Wylde, chemist and druggist, aged sixty.

#### Died on Service.

BONES.—Lieut. A. M. Bones, of the Cape Mounted Rifles (now 1st S.A.M.R.), seconded to the 1st King's African Rifles, was killed in action on October 28. Lieut. Bones was the eldest son of Mr. A. A. Bones, F.C.S., pharmacist (A. A. Bones & Co., Ltd.), Pretoria.

STOTT.—At the Ripon Training Centre on December 25, Private Kenneth Stott, chemist and druggist, aged twenty-five. Private Stott was apprenticed to F. W. Sutcliffe & Co., of Leeds, and studied at the South London College, and after passing the Minor in 1914 he joined the staff of Boot's Pure Drug Co., Leeds. About a year ago he secured an appointment with Parke, Davis & Co. as travelling representative, and was stationed in the Lancashire district until he joined up about six weeks ago, he having been previously rejected on medical grounds. Private Stott was a great favourite with the staff, and was a hard-working and painstaking worker.

STUART.—Private Charles Edward Stuart, Cameron Highlanders, has died abroad of wounds received in action. Previous to enlisting he was a chemist's assistant with Cockburn & Co., Ltd., Howard Street, Glasgow.

THOMPSON.—Rifleman Chas. W. Thompson, of the King's Royal Rifles, reported to have been killed in action after being missing since September 15, enlisted in November 1915, while an assistant with Mr. T. Tyerman Sturdy, chemist and druggist, Easingwold, Yorks. He was twenty-one years of age.

## Medical Gleanings.

### Eusol Intravenously.

DR. J. ALLMAN POWELL, Cheltenham, gives particulars in the "British Medical Journal" (1916, II., p. 422) of an almost hopeless case of acute sepsis of the blood-stream in which improvement followed at once an intravenous injection of 40 c.c. of eusol preceded by 300 c.c. of normal saline.

### Turpentine in Surgery.

TURPENTINE is now used in surgery for controlling bleeding from various parts of the body, and has been found also useful in secondary hæmorrhage. Mr. J. Watkin Edwards, in the "British Medical Journal," suggests a trial of equal parts of ac. carbol. liq., liq. ferri perchlor., and ol. terebinthine. He thinks this will be as effective and cause less suffering.

### Epidemic Jaundice.

THIS war trouble is characterised by a yellow colour of the skin, some fever, and general disturbance. There was a similar epidemic in Tokyo in 1914, and as the result of research bacteriologists found the disease to be due to a spirochæte, not unlike the spirochæte of syphilis, which they called *Spirochæta icterohæmorrhagica*. At a recent meeting of the French Academy of Medicine, Drs. L. Martin and A. Pettit produced experimental evidence to show that the spirochætes are present in French soldiers. They found three cases of the disease among over fifty patients with jaundice; the inoculation of guinea-pigs with blood from these three patients killed the animals with hæmorrhagic jaundice in a few days. Salvarsan is not a remedy for the disease.

## Information Department.

### INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

174/59. La Reine des Crèmes (Bossard-Lemaire): London agents.	172/25. Paper wool packing.
174/60. Formal et Menth. (Abraham).	172/15. Randall's military improved hypodermic syringe (Boston, U.S.A.): London agents.
169/73. "Sign-It" time-recorders.	173/28. Trimenthol in capsules.
169/71. "Abizol."	173/45. "Chirone" (for staining glass green)



## Observations and Reflections.

By Xrayser II.

1917

will be one of the great years of the century; we have good reason to hope that it will see the end of the war, and almost certainly it will decide what the end is to be; before it closes victory will have declared itself upon one side or the other, and no Briton can doubt to which side it will fall. Whatever the issue, we pharmacists are bound by our contracts to another year's Insurance work on the old terms, but it is the last time we shall accept them. If the Pharmaceutical Society fails to secure better conditions for us we shall break with the Society and stake everything upon independent action, as our Scottish *confrères* did twelve months since. Of that there must be no room left for doubt in the minds of our leaders, and if they do not respond before it is too late our cry must be, "To your tents, O Israel!"

### Our Prospects for the Coming Year

apart from Insurance business, are full of encouragement. Never before have our ranks been so closely knit or so well organised, and although there is still much to be done in this respect, the fact that we are all alive to its necessity and eager to see it accomplished is the best of omens. There can be no question that federation is the immediate end to which we are tending, but federation is, of course, but a means to further ends, and no machinery can ever be more than a means. Our ultimate object is a corporate consciousness finding expression in united action, the whole trade living and moving together as one body. This achieved, there is no legitimate aspiration which we may not hope to see realised.

### The Commercial Traveller

has sometimes been spoken of as superfluous, and even as a nuisance, and I have heard some pharmacists say in their haste that he is both. Another charge which this scriptural allusion may recall to mind has been made against him; in short, he is, albeit usually an amiable creature, one of the best-abused of men. He will be greatly missed, nevertheless, wherever the new railway regulations deprive us of his services, as in many places they will, and the coming restriction of travel cannot fail in this way to reduce business very considerably. For a good traveller, after all, is the best aid to business that any house can have: he not only does business, but makes it; he is a living advertisement more persuasive than any written one; he is a sensible bond of good will, 'keeping up a human relationship between dealer and customer. He serves, also, the function of the lightning-conductor; upon his head, "bloody but unbowed," is discharged harmlessly the thunder that might otherwise blast the House; he is the buffer that breaks the shock of collision, the oil that eases friction—vary the metaphor as we may, it comes to this: we cannot spare the "commercial," and trust that his present discomforts will not drive him in increasing numbers off the road.

### Mr. Glyn-Jones,

whom I heartily congratulate on his Ministerial appointment, illustrates a trait in the Welsh character that has sometimes puzzled me, in view of the popular conception of the national temperament embodied in Tennyson's line, "The wild hysterics of the Celt." The injustice of the line is obvious and needs no demonstration, but the quality to which it points—a somewhat excessive emotionalism—is, I may say admittedly, a Welsh characteristic, and it is not one we expect to find

combined with unusual business ability. But that in Welshmen it does frequently co-exist with this an observant eye would gather from the names on many of the most imposing shop-fronts—I will not say of Liverpool and Manchester, where the Welsh element is strong, but of London, and especially, perhaps, of North London. And in the wider sphere of politics we see just now, here at home, at the Antipodes, and across the Atlantic, the very highest places, or places next to the highest, occupied by men with Welsh names. I need not mention such names eminent in our own trade, or elaborate my point any further: it is certain that only men with a peculiar aptitude for affairs and the management of men attain exceptional success either in trade or anywhere else. How far has the national characteristic to which I have referred helped these successful Welshmen? Are we justified in supposing that the emotional temperament, with its corollaries, idealism, enthusiasm, and the rest, is of more value to them than what we Anglo-Saxons consider the more practical qualities of intellectual ability and hard commonsense? At all events, it would seem to be an invaluable adjunct to these, a splendid driving-force both to its possessor and to those with whom he comes in contact.

### The Commercial Bureau

suggested by Mr. Saunders for Liverpool is an excellent idea, and I trust that there will be no hesitation in carrying it out or something like it. The surprising thing is that in a great exporting city like Liverpool there has not been in the past just such an institution as that outlined by Mr. Saunders. The value of a bureau of this kind must be inestimable, and if the war produces as one of its fruits a comprehensive business house of this character, the export trade of the country, and Liverpool especially, will reap much benefit thereby.

### Concentrated Infusions

were quite a recent invention when some of us entered the trade, and they were supposed to need an apology. There are sixteen of them, digitalis being of the number, in the current Insurance Tariff; is it to be inferred that they have advanced in favour with the faculty, or are we to regard them as just good enough for panel practice? Of course they are never exactly equivalent to fresh infusions. These, again, are comparatively recent introductions to our official books, dating only from 1720, though as extemporaneous preparations, which is their distinctive characteristic, they are much older. Bacon has a chapter on infusions in his "Sylva Sylvarum," from which we may see how carefully the curious in such matters experimented with them while they were still on their trial. Such care might have seemed hardly worth while if it had been foreseen that infusions would degenerate into a kind of aqueous tinctures.

### The Abuse of Morphia

and other narcotics appears to be gaining ground both in France and in Germany, and in both countries steps are being taken to restrain the habit. I wonder whether we in Great Britain are to be in similar case. It is bad enough at present, but if special morphia regulations are to be added to our existing poison provisions life for the pharmacist will become still more complex and burdensome. It is more than possible that the experiences of wounded soldiers, whose pains have been relieved by the use of morphia, may tend to the creation of the morphia-habit, for we may be sure that those who have felt the relief afforded by the use of a 4-gr. tablet of morphia will resort to the use of the drug should they ever feel the need of it. It is unquestionable that many thousands of ounces of morphia have been used up in this way, and we may take it for granted that when the boys come home a large proportion of them will think that they require a sedative to soothe their shattered nerves. I hope that those in authority whose duty it is to attend to such matters will act in good time, for prevention is better than cure; and if special regulations are to be put in force, I trust that they will be well considered beforehand.



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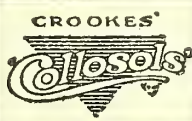
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## Editorial Articles.

### A Splendid Christmas.

DURING the past fortnight we have been receiving from correspondents in all parts of Great Britain and Ireland messages respecting their Christmas trade, and almost without exception they tell us how splendid it was. There had been comparatively little preparation for Christmas. In every branch of the shopkeeping industries people feared to venture boldly on Christmas preparations. Perhaps that was less due to the nature of the business that prevailed than to the almost universal feeling among men and women that the seriousness of the war does not warrant extraordinary displays of any kind. But man is a creature of instinct from whom it is exceedingly difficult, if not impossible, to eradicate that remarkable affection which is periodical, and Christmas of 1916 was in essence and in fact another Christmas, or, in other words, a suitable time to materialise the affection that exists between man and his brothers. So it happened that in practically every pharmacy in the British Isles there was a demand for gifts such as chemists and druggists sell in the way of trade. The results from the trade point of view have been sufficiently voluminous to cause those who are not usually disposed to meditate upon such matters to realise that the Christmas season is a time when, no matter what the conditions of the people may be, they use their utmost endeavour to express their good wishes for their fellow men, especially those nearest and dearest to them, in an appropriate manner. We do not attempt now to name the articles sold by chemists and druggists that were most in favour with their customers at Christmas-time. This is not the purpose of these observations. What we want to record is the fact that the British public have at this time been exceptionally lavish in their expenditure on things that have materialised peace and good will towards men. We can afford to neglect the details. It is in one sense significant of our internal conditions in the British Isles that purchasers have been exceptionally generous; this means that they are making money, and they used it at Christmas-time to express friendly feeling. One point arising from these matters deserves emphasis—namely, that this country is financially better off to-day than it has been during the lifetime of the oldest inhabitant; and although careful and provident men cannot enter on a prodigal campaign, but must, by instinct if not by necessity, encourage economy, there is a possibility that the economical line may be carried too far and to the breaking-point. Fortunately for chemists and druggists they are in a business in which quality as a factor is supreme; good quality necessarily means higher prices. It is from these that chemists and druggists may benefit and take advantage of prevailing affluence, especially of those who are engaged in industrial and commercial pursuits, be they masters or men. We want to keep this up throughout the year upon which we have entered, and chemists and druggists should not forget that the business in which they are engaged is a very wide one, in which dispensing, or pharmaceutical practice, is a minor rather than a prominent part.

### Dearer Spirit Products.

THE intimation which we gave in our Trade Report of December 16 and 23 will have prepared our readers for the advance in rectified spirit which took place as from January 1. The increase in price amounts to 1s. 2d. per proof gallon delivered in bond, and now brings the distillers' quotation to 4s. per proof gallon, to which the



duty of 16s. 3d. has to be added before the wholesaler, manufacturer, or perfumer takes delivery. This is the third and biggest advance in the price of spirits which has taken place in the past twelve months, the quotation on January 1, 1916, having been advanced by 7d. to 2s. 2d. per proof gallon, and a further 8d. was added in April 1, bringing the price to 2s. 10d. Following on those advances, manufacturing chemists and wholesale druggists raised their prices for spirituous preparations correspondingly. The more important changes made in consequence of this week's advance include an addition of 2s. per gallon to rectified spirit, 4d. per lb. to the price of spirit. ether, nit., spirit, ammon. aromat. and similar spirits and rectified tinctures, 2d. per lb. to proof tinctures, with alterations of from 1d. to 4d. per lb. on other preparations (e.g., liquid extracts, concentrated decoctions and infusions, liquors, etc.) according to their alcoholic content. Pure chloroform is 5d. per lb. higher. It is as well also to note that perfumes and spirituous toilet-preparations are all dearer to buy, and the retailer will not forget that he needs more for them when he sells. Pure and methylated ethers will probably be 4d. per lb. dearer. Full particulars of the advance of 1s. 9d. per proof gallon in industrial and mineralised spirit will be found in our Trade Report. This also is the third advance since January 1, 1916, and as the prices of methylated spirit range from 7s. to 8s. per gallon, the time is rapidly approaching when its use for domestic purposes will cease for the duration of the war. In fact, it is the wish of the Government to discourage the use of S.V.M. by the public. The condition of this market is such that no contracts are undertaken, and prices are strictly "without engagement." In regard to rectified spirit we understand that while there is no actual shortage for manufacturing chemists' and druggists' purposes, there is occasional delay in delivery owing to haulage and temporary scarcity of empty packages or iron drums. As everybody interested was aware of the impending advance, there was naturally a tendency to obtain larger deliveries off contract, but with the Government in absolute control at the distilleries the opportunity for taking advantage of cheaper spirit and correspondingly higher prices for the finished products has been slight. This advance is one that affects the makers of fruit essences for confectionery, etc., which are usually made with the purest rectified spirit, and a proportionate increase will be made in the prices of these products. Perfume-makers are also affected, as we have suggested, and it is anticipated that on this occasion the advance will have to be passed on to the public in increased retail prices. It is possible that as the year progresses further restrictions may be put on the use of spirit for industrial purposes, and perfumers and makers of toilet-preparations, especially hair-washes, may be singled out. The exercise of the full powers of the Ministry of Munitions is first devoted to war supplies, and these probably absorb 80 per cent. of Britain's output. After which come supplies for medicinal purposes (the Government exercises great care that the spirit is so used), manufacturers of medicinal and chemical products, methylators, and perfumers. Incidentally we note with satisfaction that the Minister of Munitions (Dr. Addison) is a registered physician and surgeon, and one of his private secretaries (Mr. Glyn-Jones) a registered chemist and druggist, so that they should make no mistake about medicinal and pharmaceutical requirements: a slip would be unforgivable. Gin-rectifiers' and whisky-blenders' requirements are the last, and it would not be surprising if further restrictions were placed on the latter; but the buying-out of the liquor-trade and total prohibition, which is being advocated in the newspaper Press, is quite unlikely. Rather may we look for a vigorous curtailment of drinking facilities in munition and dock areas.

### National Medical Records.

ONE of the good results which have accrued from the National Insurance Acts and the administration of Medical Benefit thereunder is that all medical practitioners on the Insurance panel have kept records of the diseases

of their patients and their treatment of the same. This is provided for under paragraph 8 of the First Schedule to the Medical Benefit regulations, which is as follows:

"The practitioner shall keep such records of the diseases of his patients and of his treatment of them as may be required as conditions of the payment of any Parliamentary grant, and such other records as may at any time hereafter be agreed between the Committee and the Panel Committee."

One effect of this provision has been that we have had started in Great Britain a record system which promised to be of national value—indeed, the Treasury regarded it so highly that they paid half-a-crown per insured person per annum for it. The Insurance Commissioners have now decided to stop the record in 1917, *but not the half-crowns*. The reason advanced for this is that the medical profession is so hard-pushed at present that it is too much to expect panel practitioners to continue their records, and instructions to this effect are embodied in circular Med. 2 (1916), which was issued by the Commission last week. We are not devotees of card systems, of which the record is one, but it was a good thing on the whole, and the want of it is most likely to stimulate its re-introduction. But we are astounded that the Commissioners' partiality for panel practitioners enables them to continue payment to them for a bit of work that they are no longer to do. The circular says:

"It is strongly urged that the depletion of the profession has now reached a point when it has become essential to simplify the duties of civil practitioners if the needs of the Army are to be met without depriving the civil population of necessary medical services; and, further, that any step in this direction should affect duties which are primarily of statistical value, rather than that any general relaxation should take place in the actual medical treatment afforded. The Commissioners, who have had this matter under constant consideration, are aware that very heavy demands on the medical profession have already been made, and that further demands may be anticipated; and in these circumstances they have thought fit to approach the Treasury on the matter. They are now in a position to state that the Treasury have agreed that the obligation to keep records may be waived as regards the year 1917, and that the waiver of this obligation will not affect the amount of the Exchequer Grant. It will not, therefore, be incumbent upon you to complete either the upper or lower halves of record cards in respect of treatment given during 1917."

This means 2s. 6d. per insured person per annum to be continued to panel practitioners. It will be remembered that a few weeks ago representatives of dispensing chemists had a terrible struggle with Mr. Charles Roberts for an advance of a third of a penny on each Insurance prescription to meet increased cost of labour required in dispensing. That third of a penny amounts to about one penny per insured person, or a thirtieth of the amount of payment to doctors which is to be continued after the work is stopped. We do not blame the doctors, but we think that the Commissioners have established a precedent that ought to be very useful to dispensing chemists some day. The half-crown represents very much more than would pay for all the accounts for drugs and appliances supplied by chemists in England, Scotland, and Wales!

### Index to Volume LXXXVIII.

As stated in previous issues, we shall supply the Title-page and Index for the volume of THE CHEMIST AND DRUGGIST for 1916 to all subscribers who write to us for it. We suggest that they should ask for this by postcard addressed to THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

### Sugar and Syrups.

THE present position of the sugar-supply is that leading pharmaceutical manufacturers have used up all their stocks, so are not able to enter into contracts for the supply of medicinal syrups. The Sugar Commission knows about the position in medicinal and pharmaceutical matters, but can make no promise at present—in fact, the Food Controller has taken a grip of the matter, and as our sugar-supplies are adequate, he is endeavouring to straighten matters out, and secure fair distribution soon.



### Insets.

THE PUBLISHER of THE CHEMIST AND DRUGGIST is now engaged in the preparation of the annual Winter Issue of THE CHEMIST AND DRUGGIST which falls to be published on Saturday, January 27. He wants to include in that issue as many Insets as possible. By "inset" is meant a specially printed price-list or allied business announcement prepared and printed by any business house connected with the drug and allied trades. Our Publisher has a printed statement in regard to such Insets that business houses should get before they give their printers instructions, and our Publisher asks us to state that he will be glad to send copies of the printed statement to anyone who writes to him or telephones for it.

### It Pays the Doctors.

IN conversation the other day with a pharmacist who has made a close study of Medical Benefit under the Insurance Act, he said frankly that one of the principal reasons for its success is that doctors and chemists are well paid for the work they do under it, and that is why the Act is succeeding. We do not think that this applies to chemists, but the Edinburgh Insurance Committee's figures show that doctors there are doing well out of the Act. The number of doctors attending 300,000 insured persons is 129, which means an average income to the doctors of about 1,200*l.* a year, but the round figures may be delusive. In Glasgow doctors got 111,913*l.* in 1914, while chemists and others received 34,434*l.* for drugs, only a part of this being for professional services, which all the doctors' money stands for. We agree that Insurance work pays doctors well, but evidence has yet to be found to convince us that dispensing chemists are in the same category.

Dr. Frederick Porter, Hon. Secretary, the Medical Guild, writing to a local paper, says: "According to the official report of the Insurance Committee of the Burgh of Edinburgh at April 1915, there are only 119,767 insured persons in Edinburgh. At the present time there are only fifty-five non-panel practitioners in Edinburgh engaged in general family practice. Of that number a few are also engaged in special work. There are sixty-two panel practitioners at present in Edinburgh. These figures have been verified by the Hon. Secretary of the War Committee." This puts a different complexion on the figures.

### Italy also Paying through Medicines.

ITALY is to have a Patent-medicine and Toilet-article Tax beginning on March 1. It is to be 10 per cent., or 10 centesimi per lira or fraction thereof, on every packet, box, bottle, vase, phial, or other container of essences, extracts, toilet-waters, cosmetics, vaseline, petroleum, hair oils or pomades, dentifrices or tooth-pastes, perfumed soaps, and all similar substances used or applied as perfumes or cosmetics made in or imported into Italy for sale. A similar tax to be affixed to every packet, box, bottle, etc., containing preventive medicine prepared as pastilles, pills, tablets, or granules, ampoules for injection, wines, syrup elixirs, salts, mineral waters made or imported etc., excluding only aseptic and antiseptic medicaments. The stamp to be affixed must have the price clearly printed on it, and must be put on with paste or other adhesive in such a fashion that it is impossible to get at the contents without breaking the stamp. All packets are to be stamped before they are exposed for sale. The Administration will grant certain facilities to users of stamps to the value of over 10,000 lire. Italian pharmacists have held a meeting at Milan for consideration and protest, and, while admitting the necessity for the tax, object

(1) To proprietary medicines and perfumes being classed together.

(2) To laxity of language favouring their unfair competitors.

(3) To unfair comparisons.

It is remarkable how near the British standard the Italians have got with this tax. The bases are almost the same as were established in Great Britain in 1783.

### Latin for Prescriptions.

THE QUESTION as to the continuance of Latin in prescriptions has been decided by the American Medical Association in the affirmative as regards the names of the ingredients, but as not necessary for the directions. Professor B. Fantus, of the Illinois University College of Medicine, takes the view that Latin should be abolished. He weighs the arguments as follows:

#### For.

1. The Latin names of drugs are more definite, concise, and unchangeable.

2. A Latin prescription can be compounded all over the civilised world.

3. Latin prescriptions are used internationally in medical literature.

4. It guards the patient against knowledge that might be prejudicial: (a) as to the physician's intention; (b) as to greater ease in securing the prescribed drug without a prescription, with possible formation of habit or other detriment.

5. Better form is preserved. "To encourage the use of English official names would easily lead to the use of unofficial English, or common names, which often are indefinite; less pains would be required in mastering the art, and the results would be probably greater laxity in prescribing and less familiarity with the official substances."

#### Against.

1. The Roman numerals, especially I and L, are apt to be mistaken for each other. . . .

2. Unusual directions to the pharmacist are generally written in English, even in Latin prescriptions.

3. New drugs are continually being introduced, the coining of the Latin names for which is an embarrassment to the prescriber.

4. Latin prescription-writing absolutely stifles originality in prescribing.

5. After all, the whole proposition of writing prescriptions in Latin is a pretence at a knowledge of Latin, of which most of us possess so little that we would be unwilling to have our ability tested by one who is a recognised authority in that language.

6. When one thinks of the crowded medical curriculum and the comparatively small number of hours set aside for pharmacology and therapeutics, it seems a pity to waste any of it on the acquiring of an antiquated form of expression.

Dr. Fantus notes that the real reason for using Latin in prescription-writing is historical, but that the days are past when Latin was the chief medium for the exchange of scientific thought.

### Another German Imposture.

THE WAR has opened wide the eyes of the world to the dishonesty of Germans in general, and has shown the fallacy of regarding Germans as pre-eminent in science. It is truer to state that Germans debase any science they touch, a good example being the introduction by their chemists of the use of poison gases into warfare. Dr. Charles A. Mercier in the "British Medical Journal" has a scathing exposure of the claims of Germans to have established a branch of mental science called psychoanalysis. Dr. Mercier sums up his exposure as follows:

"For more than twenty years I have been demonstrating the rottenness of German teaching in mental disease, and during all that time I have been as the voice of one crying in the wilderness. There is no folly so egregious, no sham so transparent, that the alienists of this country will not gulp it down with greedy credulity if only it comes from Germany. The superstition that Germany is pre-eminent in mental disease is as deeply rooted and as irrational as the superstitions that she is pre-eminent in organisation and in science generally. The last are now exploded. The whole world is at length ashamed at having so long suffered itself to be imposed upon by braggart boasting. Even Americans, the most gullible people in the world, as they are the most generous in giving intellectual credit, are realising that Kultur is a sham, and the miraculous German capacity for organisation and for scientific discovery an imposture. It is left for the alienists of this country, and for a little tail of other physicians, to be the very last to cling to an exploded superstition. . . . The man with the muck-rake was deaf to persuasion, and refused to lift up his eyes unto the hills: and no doubt the psycho-analysis will continue their raking in the muck; but it is as well



that those who hear their noisy propaganda, and take for granted that there must be some sense at the bottom of it, should learn the true state of the case, and should know of the attempt that is being made to corrupt the rising generation.

The last reference is to a campaign which it is proposed to carry out in schools by British alienists.

### Australian Registration of Medicines.

THE following is the wording of the new clause which it is proposed to add to the Commonwealth Trade Descriptions Act, 1905:

- 10 (a) (i.) The Governor-General may by regulation—
- (a) require that with respect to any kind of imported goods, being—
- (i.) medicines or medicinal preparations or appliances for internal or external use; or
  - (ii.) articles described as, or intended for, or for use in the preparation or manufacture of food or drink, the owner shall apply in the prescribed manner to the Minister, for registration of goods of that kind, and supply to the Minister a written statement setting forth—
  - (iii.) in the case of any appliance specified in sub-paragraph (i.) of this paragraph, a description of the construction of the appliance, and
  - (iv.) in the case of any other goods specified in this paragraph, an exact and complete statement of the ingredients of the goods, and such other information as the Minister requires;
- (b) prescribe the manner in which the fact of registration of goods of that kind shall be indicated upon the goods, and the fees payable for registration;
- (c) require that all printed matter relating to any goods specified in paragraph (a) of this Section be submitted as prescribed to the Minister for his approval;
- (d) require that any "trade description" applied to any such goods shall set forth—
- (i.) the proportion of alcohol contained in the goods;
  - (ii.) the proportion of any prescribed drugs contained therein; and
  - (iii.) such notices and statements specified or approved by the Minister as are in his opinion necessary for the protection of the public;
- (e) require that when any alteration is made in the composition or construction of any registered goods, the manufacturer, owner, or importer of the goods shall notify the Minister in writing in the prescribed manner of the alteration before any goods manufactured in accordance with the alteration are imported; and
- (f) prohibit either absolutely or subject to prescribed conditions—
- (i.) the enclosure with any registered article of any printed matter relating to any other registered or registrable article; and
  - (ii.) any invitation or implied invitation to correspond with the maker or vendor or any promise to return money if a cure is not effected.
- (2) All goods in relation to which any contravention of the Regulations made under this Section has been committed shall be prohibited imports, and the Minister may if he thinks fit cancel or suspend, or suspend for a specified time, the registration of the goods.

Further sub-clauses give the Minister power to refuse to register goods and forbid the disclosure of the composition of the registered goods "except for the purposes of the administration of justice" to any person other than authorised officers of the Department.

WHEN A CUSTOMER ASKED a pharmacist the other day for a box of tablets, the latter briefly put the question: "A shilling or eighteenpence?" The customer replied, "A shilling, please." He was supplied and departed satisfied. A bystander remarked to the pharmacist that he did not know the tablets were put up in 1s. 6d. packets. The pharmacist frankly acknowledged that there were no 1s. 6d. packets, but only sixpence and a shilling. He took the social measure of the customer and pleased him better by offering 1s. and 1s. 6d., thereby offering 6d. and 1s., such a customer being liable to take offence at any offer below a shilling. If by chance a 1s. 6d. packet had been asked for, two-shilling packets would have been offered and purchased. The bystander expressed admiration at the knowledge of human nature displayed, and volunteered the information that he himself had frequently received offence in shops by being offered, especially in the presence of other customers, the lowest-priced goods. He could not deny that he felt gratified whenever he was offered higher qualities or the larger quantities. He particularly recalled entering, for the first and last time, a large emporium, and being escorted by a shop-walker to a far-off counter at which lady customers were congregated. In a stentorian voice the shop-walker bawled to the assistants, "Bathing-drawers for this gentleman!" At which lack of tact the gentleman joined the ladies in blushing.

## Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. R. LANE HALL (R. Lane Hall & Co, chemical merchants and agents, 4 Lloyd's Avenue, London, E.C.) has joined the O.T.C. (Inns of Court). The business is being carried on without interruption by his partner, Mr. Meisel.

LADY MACKWORTH, daughter of Lord Rhondda, has been elected a member of the board of management of the British Proprietors of Sanatogen and its allied proprietaries, and has taken her father's place as chairman of the companies.

SIR WILLIAM J. COLLINS, M.D., has been returned unopposed as Member of Parliament for Derby, in the place of Sir Thomas Roe, who has been raised to the Peerage. Sir William was formerly M.P. for West St. Pancras, and is a leading member of the staff of the London Temperance Hospital.

MR. T. L. HOLLELY, Ph.C., Ryeofoft, Retford, and ex-Mayor of the borough, has been appointed substitution officer for the Retford area. Mr. Hollely, who served his apprenticeship with Mr. Ward, of Sheffield, is also a practical farmer, and has served on the rural Tribunal. He has also seen service at the Front.

MR. H. E. BOORNE, on behalf of the directors of Evans, Gadd & Co., Ltd., Bristol and Exeter, presented on December 30 to Mr. B. C. Eveleigh, senior representative of the Bristol travelling staff, a handsome marble timepiece on his relinquishing his position to take up an appointment in another line of business. The plate on the clock bore the following inscription:

"Presented to Mr. B. C. Eveleigh as a token of esteem by the directors of Evans, Gadd & Co., Ltd., in recognition of nearly twenty years' faithful service, December 30, 1916."

MR. W. J. HUTCHINGS, who has also been in the employ of Evans, Gadd & Co., Ltd., for a period of about twenty years, is taking over Mr. Eveleigh's ground from the New Year.

MR. T. B. MORISON, K.C., Solicitor-General for Scotland, has been returned unopposed for Inverness-shire, in succession to Sir John Dewar. Mr. Morison is a son of Mr. Peter Morison, S.S.C., Edinburgh, who has been Scottish legal adviser to the Pharmaceutical Society, and the Solicitor-General has himself represented the Society in several important cases.

PHARMACISTS, when they go on holiday carry their golf-clubs with them, may remember Friday, July 25, 1913, when those of them who came to the Jubilee meeting of the British Pharmaceutical Conference in London were invited to have a game on the Ealing golf-course. The principals in that invitation were Mr. T. Edward Lescher (who has been telling Liverpool pharmacists this week something about the obligations and sympathies that unite wholesalers and retailers), and Mr. Charles Stratford Present, a partner in a leading Metropolitan proprietaries house, who as a golfer and a leading London man in pharmaceutical affairs arranged the entertainment of B.P.C. golfers that day.



MR. C. S. PRESENT.

Mr. Present has during most years of the twentieth century taken a part in the social affairs of pharmacy, such as the Chemists' Ball (whose Jubilee is this year) and the Junior Pharmacy Ball, to name but two of many. One of our Trade Notes tells us this week that his partnership with Sangers has ceased. Eighteen years ago he entered the business, after his education at Whitgift School, Croydon, and a period of service in finance with the London City and Midland Bank. In 1905 he became a partner in Sangers, then at Winsley Street, W., and has had a dozen years hard work in the business at Winsley Street and Euston Road. Besides the good work done there Mr. Present has been keen in national pursuits, first as a Volunteer, and in these more strenuous times as a special constable. His severance from the old partnership enabled him to enter the old-established business of Butler & Crispe, 80 Clerkenwell Road, London, E.C., in association with Mr. James Herbert Crispe and Mr. Gower, who have been trading as Butler & Crispe for many years. January 1, 1917, was the day on which Mr. Present commenced to work



with these gentlemen. The history of the business and the firm was briefly related in the *C. & D.*, January 31, 1914, but we may recall the fact that John Ching, the Cornish apothecary, and originator of Ching's worm-lozenges (mentioned in the Schedule to the Medicine Stamp Act, 1812), founded the business, brought it to Cheapside, London, and the 1841 proprietor of it (Thomas Butler) was one of those who started the Pharmaceutical Society. Four years later Mr. James Crispe acquired the business, and his son, Mr. J. C. Crispe, succeeded him. Mr. Gower came in as a partner twelve years ago, and now Mr. Present has the opportunity of taking charge of a chapter of pharmaceutical history, which he is not unworthy to keep as bright as it has been any time during the three centuries that it touches.

## Trade Notes.

**TABLET-BOTTLES** are a speciality of S. Wright & Co., bottle-manufacturers, Crown Buildings, Homerton, London, N.E.

**THOMAS & WILLIAM HENRY**, 11 East Street, Manchester, the manufacturers of Henry's calcined magnesia, insert a New Year's greeting in this issue.

**THE 1917 CALENDAR** issued to his customers by Mr. H. M. Ashton, dispensing chemist, 63 Sankey Street, Warrington, contains an excellent photograph of himself in one of his best dramatic characters.

**SANGERS**, wholesale chemists and druggists' sundriesmen, 258 Euston Road, London, N.W., inform us that they have closed their partnership with Mr. C. S. Present, whose connection with the firm has terminated.

**AYRTON'S SUPPLEMENT** is the title of an illustrated monthly price-list now being issued by Ayrtton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, a copy of which they will send to any *C. & D.* subscriber on application.

**TOPICAL REMEDIES**.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, advertise in this issue cold-cure tablets and pine catarrh-cure, both of which are ready sellers just now. These are own-name articles, and bear a good profit.

**THOMAS WAIDE & SONS**, Alexandra Printing Works, Kirkstall Road, Leeds, have issued a 1917 calendar, each monthly sheet of which measures 15 in. by 9 in., the letters being in white on a blue ground. It is particularly prominent, and should be useful throughout the year.

**DECOLTENE**.—Robartes, Ltd., 128 Jernyn Street, London, S.W., ask the trade to note that the name "Decolene," as applied to their liquid hair-remover, has been changed to "Decoltene." The prices of this preparation and of Dinkie are given in the company's advertisement in this issue.

**JOHN PHILLIPS & SONS, LTD.**, sponge-importers, Dingley Road, City Road, London, E.C., send out a wall-calendar, 21½×15 in., which has in the centre a large picture in colours representing the industry of sponge-fishing. The calendar portion beneath the picture is in the form of monthly tear-offs.

**JAMES TOWNSEND & SONS**, label and general printers, Exeter, and 2 and 3 Stonecutter Street, London, E.C., issue a wall-calendar for 1917, measuring 6½×5½ in. Each page has upon it a monthly calendar, and at the end are complete calendars for 1916, 1917, and 1918, with postal information in detail.

**SWANDOWN FACE-POWDER**.—An advertising-campaign of Tetlow's Swandown face-powder is at present being conducted in a large number of newspapers. The British agents, Henry C. Quelch & Co., Ludgate Square, London, E.C., ask chemists to take full advantage of this by keeping an adequate stock of the different tints.

**JUVENIA SOAP AND OINTMENT**.—These are "new quick-selling lines which yield particularly inviting profits," to quote the advertisement in this issue of F. S. Cleaver & Sons, Ltd., toilet-soap makers and perfumers, Twickenham. An advertising-campaign is in progress which is designed to produce a big demand. An offer is made to exchange Cutolia soap for Juvenia soap at full price.

**SEASONABLE GREETINGS**.—Goodall, Backhouse & Co., Whitehorse Street, Leeds, and 54 Southwark Street, London, S.E., were among those who inserted in our issue last week the season's greetings and best wishes for a prosperous New Year to all their friends at home and abroad. We regret that a statement to this effect was not included in our editorial article on "The Coming Year" which appeared in the issue, pp. 52-53.

**LAST THING AT NIGHT**, children—and adults too—should always eat a portion of some detergent and acid fruit, such as orange, apple, pear, or pineapple.—*Dental Cosmos*.

## Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

- (From "The Trade-marks Journal," December 27, 1916.)
- COG-wheel device** with words "The B. & S. Co., Bristol" ("Bristol" disclaimed); for steel-hardening chemicals (1). By the B. & S. Co., Colston Street, Bristol. 375,339.
- "MONOQUIN"**; for photographic developers (1). By White Band Manufacturing Co., Ltd., 121 Selsdon Road, South Croydon. 375,552. (Associated.)
- "DURANINE"** and **"DURANTHROL"**; for dyestuffs (1 and 4). By Claus & Co., Ltd., Clayton, Manchester. 375,604/5/6/7. (Associated.)
- "DABBO"**; for all goods (1). By G. Peacock, 5 Railway Place, Gravesend. 375,746.
- Device of lifeboatman and words "SALVAVIDA DESINFECTANTE REAL JABON"**; for soap (2 and 47). By Lever Brothers, Ltd., Port Sunlight. 370,447/8. (Associated.)
- "ZOEL"**; for all goods (2). By C. Billing, 85 Lancaster Road, W. 375,787.
- "NANNELCAM"**; for medicinal chemicals (3), and for perfumery, etc. (48). By R. MacLennan, 84 Comiston Road, Edinburgh. 375,211/2.
- Picture of flag bearing star-shaped device for medicinal chemicals (3)**. By Leslies, Ltd., 18 Eldon Street, E.C. 375,327.
- "DIOSEINE"**; for pharmaceutical preparations (3). By Prunier & Cie, 6 Rue de la Tacherie, Paris. 375,670.
- Circular device with monogram "J. W. B."**; for all goods (3, 47, 48), and polishes (50). By J. Wilson & Bros., Ltd., 10 Walton Lane, Sunderland. 375,856/7/8/9.
- "SYNTHITE"**; for all goods (4) and for electrical insulating preparations (50). By Robinson Brothers, Ltd., Ryders Green, West Bromwich. 375,497/8.
- "WINDMILL"**; for all goods (8). By R. C. Spurin, Moto-graph House, Upper St. Martin's Lane, W.C. 374,343.
- "KEENAK"**; for scientific instruments, etc. (8). By W. H. Glaser and E. Hadfield, Jun., 59 Newhall Street, Birmingham. 375,384.
- "CERTECO"**; for surgical perforated paper wrappings (11). By S. Maw, Son & Sons, 7-12 Aldersgate Street, E.C. 375,148.
- "FLORA-NIGRA"**; for marking-ink (39). By C. Newton, 65 Marriott Road, Finsbury Park, N. 375,274.
- "RESEARCH"**; for baking-powders, etc. (42). By Prescott & Co., 63 Corporation Street, Manchester. 374,803.
- "CRISTOMALT"**; for food-substances (42). By A. Wander, Ltd., 45 Cowcross Street, E.C. 375,775.
- "TANK"**, with fancy picture of same for soap (47); **"DORY TOILET SOAP"** on label with picture of fish; for soap (48). By G. W. Goodwin & Son, Manchester. 375,466/628. (Associated.)
- "GRYMEX"**; for all goods (47). By V. Garabedian, 59 Gracechurch Street, E.C. 375,784.
- "GWENORA"**; for all toilet articles (48). By M. A. H. Barley, 32 Old Steine, Brighton. 375,869.
- "NOR"**; for tooth-brushes (50). By Société Anonyme "Dentclair," 8 Rue de l'Union, Roubaix, France. 375,123.
- (From "The Trade-marks Journal," January 3, 1917.)
- Medallion with portrait surrounded by words "MILTON MANUFACTURING CO., LTD"**; for all goods (2). By Milton Manufacturing Co., Ltd., 125 Bunhill Row, E.C. 375,959.
- "OGENO"**; for medicinal chemicals (3) and for perfumery, etc. (48). By Burroughs Wellcome & Co., Snow Hill Buildings, E.C. 372,021/2. (Associated.)
- Picture of pestle and mortar with St. Andrew device (device of a pestle and mortar disclaimed)**; for all goods (3). By Cockburn & Co., Ltd., 130-140 Howard Street, Glasgow. 374,944.
- "WIZARD"**; for soaps (3, 47, and 48). By W. Gossage & Sons, Ltd., Widnes. 375,437/8/9. (Associated.)
- "CRYSTAL"**; for cocoa-butter substitute (42). By C. Thomas & Bros., Ltd., Bristol. 374,538.
- "MELSAP"**; for food-substances (42). By A. H. Gasquoin, 35 Rushworth Street S.E. 375,329.
- "SOLARDA"**; for fats (42). By Mapleton's Nut Food Co., Ltd., Garston, Liverpool. 375,336.
- "SOMMEDASH"** ("Somme" disclaimed); for mineral waters, etc. (44). By the Great Northern Mineral Water Co., Belfast. 375,030.
- "CHANSON SANS PAROLES"**; for perfumery, etc. (48). By the Standard Tablet and Pill Co., Ltd., Hove. 375,594.
- "KRIPA"**; for all goods (48). By Dedida Co., Fulwood Place, High Holborn, W.C. 375,633.
- "PESHAVA"**; for perfumery, etc. (48). By W. B. Cartwright, Ltd., Rawdon, near Leeds. 375,648.



# Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

## Reports from Local Centres.

### ENGLAND.

**Bolton.**—A meeting of the Insurance Committee was held on December 28, when a report was received from the Lancashire Prescription Bureau. This report stated that for the first nine months of the year the number of prescriptions dispensed was 157,042, against 231,412 in 1915 and 279,198 for 1913, the value of the prescriptions being 3,768*l.*, against 7,126*l.* for 1915 and 9,016*l.* for 1913, the average cost of 5.7*d.* comparing with 7.39*d.* and 7.75*d.* The total number of insured persons on the doctors' lists was 66,267, against 70,907 and 65,630. The question was discussed of surcharging doctors who had not furnished adequate records.

**Bournemouth.**—The Insurance Committee's action in regard to Sale of Food and Drugs Act inspection of medicine samples and "C.L." stock mixtures (*C. & D.*, December 9, p. 47) came before the Health Committee of the Bournemouth Corporation last week, and the Town Clerk was instructed to reply that the Committee could pass no resolution on this subject which would limit or tend to limit in any way the full exercise of their statutory powers.

**Bradford.**—At the meeting of the Insurance Committee on December 27, the minutes were read of the Finance and General Purposes Committee, which contained a report of the Panel Committee on the alleged ordering in excess of drugs and appliances by Bradford medical practitioners during the year 1914. It was stated that some difficulty in obtaining evidence had occurred through practitioners being called away on active service. The complaints were that twenty-seven practitioners had exceeded by over 1*s.* the average cost per case, thirteen had given over ten prescriptions per case treated, and fourteen had either 1 per cent. in number, or 5 per cent. in value, of their prescriptions over 3*s.* each. After detailed examination of the cases, six practitioners were invited to meet the Panel Committee, who recommended admonitory surcharges in these cases, but they concluded that medicines were not in most cases ordered in excess of reasonable needs. It was recorded that the number of insured persons within the area of the committee on October 1 was 127,721, a decrease of 589 on the figure for July 1, which was more than accounted for by 2,041 persons having joined the Forces during the quarter.

**Brighton.**—At a meeting of the Insurance Committee on December 28, it was reported that, owing to the early-closing order, the Medical Benefit Sub-Committee recommended that chemists should be paid an extra fee of 3*d.* for prescriptions dispensed after hours. The panel doctors, however, objected to this, as they contended that the payment would come out of the "floating" sixpence. It appears, however, that the doctors have not yet received any part of this fund. Councillor Black contended that the fees were a fair charge on the Drug Fund, and also stated that the doctors would reconsider the matter if the Committee recommended it. The report was adopted.

**Huddersfield.**—The Medical Benefit Sub-Committee reported at the meeting of the Insurance Committee on December 27 that the ten stock mixtures selected by the Panel Committee have been withdrawn, and the arrangements for a reduced dispensing-fee thereon terminated as from October 23. This decision was confirmed.

**Plymouth.**—At the meeting of the Insurance Committee on December 29, it was proposed that a Committee be appointed to carry out the duties of sampling dispensing in accordance with the powers conferred by the new drug-contracts. The matter was, however, referred back to the Medical Benefit Sub-Committee for further consideration. It was announced that the seat held by Mr. S. R. Williams, chemist and druggist, was vacant, he having been absent from the meetings for over six months.

**Portsmouth.**—At the meeting of the Insurance Committee on December 28, the report was adopted of the Finance Sub-Committee, which recommended the settlement of the drug-accounts for September and October. The average cost per script during September was 5.97*d.*, and for October 6.15*d.* The Panel Committee declined to make definite recommendations regarding the dispensing of prescriptions after the chemists' closing-hours, and as it was stated that there are practically no prescriptions dispensed after 8 P.M. the Insurance Committee took no action in the matter.

**Salford.**—At the meeting of the Insurance Committee on December 28 a letter was read from the Pharmaceutical Committee regarding the new regulations for closing shops, and asking the Committee to use their influence with the Panel Committee to induce the doctors to modify their hours of attendance so that prescriptions may be received before 8 P.M. The Panel Committee is to be asked for their observations on the matter. A letter regarding the analysis of samples of medicine supplied by panel chemists was referred to the Pharmaceutical Service Sub-Committee. The medicine supplied is stated by the Public Analyst to be not in accordance with the prescriptions.

**Sheffield.**—A meeting of panel chemists was held at the Literary and Philosophical Society's rooms on December 27, Mr. H. G. Williams in the chair. The Chairman explained the present system of price-checking prescriptions by the Central Bureau, with the results up to date, also the proposed scheme of a 10-per-cent. check for 1917, which would mean a reduction in cost on the 1916 arrangements. A difficulty with the Panel Committee over the suggested hours of closing has been referred to a Special Committee of chemists and doctors, to arrange the districts where a later hour for closing is needed to ensure an adequate service. The Secretary gave a short comparison of the three complete years' working of the Medical Benefit under the National Insurance Act. In 1913 the accounts came to 15,966*l.*, and the credit from the Commissioners allowed a payment of 92½ per cent. Against this deduction should be put the copying-fee paid on 374,983 scripts, amounting to 1,564*l.*, or nearly 10 per cent. The year 1914, so far as Sheffield is concerned, is the black year. The accounts amounted to 16,835*l.*, but the credit only allowed a payment of between 83 per cent. and 84 per cent. Against this there was the copying-fee on 540,000 scripts—2,250*l.*, or slightly over 13 per cent. On the two years, therefore, chemists received 13 per cent. and 10 per cent. which the Commissioners from the first objected to as not a legitimate charge against the fund. In the same two years accounts were underpaid either 15 per cent. or 17 per cent. and 7½ per cent. The chemists' grievance in regard to the 1914 accounts is not simply that the cash was not forthcoming, but that the method of credit was unfair, as the number of persons insured in the area was 170,733, which should have met the accounts in full. As, however, the aggregate for the country was more than the stamped cards showed, the Commissioners made a *pro rata* deduction from each Insurance area, apparently ignoring the accuracy or otherwise of the Insurance Committee's books. This meant a reduction of some 24,000 two-shilling credits. The Pharmaceutical Committee protested against this along with the Insurance and Panel Committees, and interviewed the authorities in London, but of no avail. The Secretary expressed the opinion that unless this interview had taken place chemists would have had a further reduction for 1915 instead of being paid in full. Neighbouring areas have suffered from 16 per cent. to 20 per cent. during 1915. The Secretary stated that the 2½ per cent. deducted during the year 1916 will be more than is necessary to meet the expenses of the Pharmaceutical Committee, and that on the final payment the overcharge would be readjusted.—A meeting of the Insurance Committee was held on January 3, in accordance with the consolidated regulations which require the appointment of a cashier. Mr. L. H. Siddell has been appointed to the position, his salary to be increased to 250*l.* per annum. In the Clerk's estimate for administrative expenses there is an item of 450*l.* as contribution to the N.E. Midland Pricing Bureau, which is a decrease of about 50*l.* on the previous year. It was decided that a Sub-Committee be formed by the Insurance, Panel, and Pharmaceutical Committees to consider chemists' dispensing-hours, and that a Committee of the Chairman, Vice-Chairman, and three members of the Medical Benefit Committee be given authority to decide whether the hours recommended at the Conference provide an adequate service. Payment was ordered to be made to chemists of the balance of accounts for the month ended October 31, and payment on account for the month ended November 30 of 825*l.* 5*s.* 9*d.*

**Southend-on-Sea.**—A meeting of the Pharmaceutical Committee was held on December 21, Mr. S. F. Body in the chair. During consideration of the contract conditions for 1917 of the Central Checking Bureau the method of calculating the rate of payment for checking was subjected to criticism, but it was decided to employ the Bureau for checking prescriptions during 1917.

**Southport.**—A meeting of the Insurance Committee was held on December 28. Further consideration was given to a letter from the Pharmaceutical Committee asking for a minimum fee of 1*s.* for dispensing Insurance prescriptions after ordinary business-hours, which was laid before the Commissioners with a recommendation that, from



January 1, a dispensing-fee of 1s. per prescription be allowed to chemists for dispensing prescriptions after 8.30 p.m. which are marked "Urgent" by the doctor. The Deputy-Clerk now reported that the Commissioners have replied, and pointed out that the doctors are under an obligation by agreement to supply emergency drugs and dressings, and that a contract had been entered into on a capitation basis to meet that particular object. Consequently the Commissioners are unable to agree with the proposal. It was decided that a copy of the letter should be furnished to the Pharmaceutical Committee and the Panel Committee for their information. The Sub-Committee appointed in that behalf reported (a) that they had considered the applications of three chemists for the exemption of their assistants from military service, and, in consultation with the Pharmaceutical Committee, recommended that these should be granted temporary exemption to March 31, and the Military Representative had approved of the recommendation; (b) that they had considered the application of Boots, Ltd., with reference to their assistants, which had been sent by the Commissioners, and had recommended that Boots, Ltd., be permitted to retain three qualified dispensers to deal with the dispensing at their establishments in Southport; (c) that they had received a communication from the Commissioners in which they stated that an arrangement had been come to with the Army Council by which Boots, Ltd., are to release a certain number of employees best fitted for military service, it being left to the firm to effect any redistribution of their remaining staff which might be necessary in order to make good any undue local depletion resulting from the selection by the military authorities. The first two paragraphs were approved, but with reference to paragraph (c) the Committee do not consider the basis approved by the Commissioners is satisfactory, and that no other chemist should be released for war service until a more equitable arrangement is arrived at.

**Worcester.**—A meeting of the Insurance Committee was held on December 27, when a letter was considered from the Worcester Pharmacists' Association regarding stock mixtures. The Chairman reported that as a result of his interview with the Panel Committee the selection of stock mixtures made by that Committee has been withdrawn. Anderson & Virgo asked to be allowed to resign from the chemists' panel on account of their assistants being taken for military service, but the Committee would not accept the resignation. The Pharmaceutical Committee's request for a 6d. fee for after-hours prescriptions was considered and was opposed by Dr. Bennett, and eventually the matter was adjourned for three months to enable the Committee to obtain more information regarding the number of prescriptions made up after hours.

**York.**—At a meeting of the Insurance Committee on December 21 ult. the following motion was proposed by Dr. Lyto:

That this Committee is of opinion that the system of medical remuneration outlined by the National Health Insurance Commission in memo. 229/I.C. constitutes a departure from the agreement come to between the parties at the inception of the Act, notably in the substitution of a day-to-day for an annual system; that grave injustice and irritation are thereby caused to doctors, approved institutions, chemists, and others affected; and that the Commissioners be requested to place the system of remuneration upon a sound basis conformable with the principles of insurance as applied by ordinary assurance societies.

Mr. Frank G. Hines, in seconding, suggested an addendum:

They further press upon the Commissioners the view that the failure of their system to allocate a reasonably accurate credit for 1915 should not entail short payment of the chemists' accounts, and desire that the Commissioners take steps to enable this Committee to meet the liability.

He emphasised the extraordinary failure of the Central Pooling system as disclosed by the memorandum, and the dishonesty of squaring accounts at the expense of the creditors of the Committee. The motion, with addendum, was carried unanimously.

#### SCOTLAND.

**The Scottish Drug Tariff for 1917** is now in the hands of all panel chemists. The prices of drugs and appliances have been brought up to date on market prices ruling on December 15, 1916. These market prices have been furnished by The British Drug Houses, Ltd., and S. Maw Son & Sons, whose lists were agreed upon by the Insurance Commissioners. The system of starring drugs has been continued, and the additions to the starred-list for 1917 are emp. canthar., ext. cascara, sag. sic., ext. cascara, sag. liq., ol. cadini, ol. santal., and all the syrups. Owing to uncertainty in market conditions, the starring of certain appliances has been rendered necessary. These are all lints, wools, and crêpe, muslin, and domette bandages. The prices

of bottles have been revised and increased in accordance with market prices. The flat rate for plasters has been increased to 4½d. per square foot. Emp. canthar. has been removed from the flat rate, starred and priced at 3d. per 12 square inches or less. Seven tinctures, costing over 5s. per lb., have been removed from the flat rate and priced on their individual cost. Steps are being taken to secure sufficient sugar for pharmaceutical purposes, and the glycerin market is being watched with a view to protecting the position of panel chemists. Consideration is also being given to the question of the supply of alcohol for medicinal purposes. The new Tariff embodies the results of many suggestions of panel chemists and Pharmaceutical Committees, and the abnormal markets and probable supplies for 1917. The Tariff was discussed fully, and adjusted in conference with the Scottish Insurance Commissioners, who approved it on December 21, 1916. It is not anticipated that the expenditure on drugs and appliances will be greater than in 1916, so that there is good prospect of accounts being paid in full. Economy is the 1917 password if supplies are to be maintained. The Pharmaceutical Standing Committee (Scotland), in issuing the 1917 Tariff, express the hope that in 1917 a righteous and securely founded world peace may prevail, and they wish prosperity and happiness to all chemists and druggists.

**Edinburgh.**—At a meeting of the Burgh Insurance Committee on December 28, it was reported that there are now only fifty-nine practitioners on the panel, and these are responsible for 200,000 persons, while there are seventy non-panel men who treat about 100,000 persons. The subject was referred to a Joint Committee.

**Stirling.**—At a meeting of the Burgh Insurance Committee in Stirling on December 29, it was agreed to pay doctors for the October-December quarter at the rate of 1s. 5d. for each person on their lists, and an advance to chemists of 6d. for each prescription-form sent in during the same quarter, pending the Central Cheeking Bureau's report. The Committee's share of the cost of the Bureau for 1915 is 14l., of which one-third each is payable by the Local Medical and Pharmaceutical Committees. The Medical Benefit Sub-Committee reported having considered the reports of the Superintendent of the Bureau and his statistical statements relating to the prescribing of local panel doctors for the nine months ended September 30, 1916. The Sub-Committee, having examined the reports and gone carefully into the circumstances in every case where, apparently, expensive drugs or medicines had been prescribed, and after considering the explanation given in each case, expressed themselves as entirely satisfied with the explanations, and of the opinion that the prescribing was justified. A brief discussion followed, and in the course of it Mr. Covey, Insurance Superintendent, suggested that the Clerk should write to the Bureau, saying that the Committee had no use for these reports at all. They were quite satisfied with the way the doctors were prescribing. The question of what "appliances" are having arisen, Judge Raffan (chemist and druggist) said that these things are fixed, and the chemists had schedules. It was absurd to think the doctors should be able to tell what is to be supplied or is not to be supplied. If they were to do that they would require to carry all the schedules with them in their motor-cars, and it would be a pretty burdensome job. The minute was approved.

**RESEARCH IN CANADA.**—The Canadian Government have appointed an honorary advisory council on scientific and industrial research to advise a Committee of the Cabinet on all matters relating to the extension and co-ordination of scientific and industrial research.

**INDIGENOUS DRUGS.**—At a sitting of the Indian Industries Commission, held in Bombay on December 6, Sir Leonard Rogers, in his evidence, pointed out the necessity for an investigation of drugs grown in India, deplored the absence of any Chair of Pharmacology, and, in illustration of the need for a Food and Drugs Act, said that most of the drugs imported into India were absolute refuse. Commenting on this evidence, the "Times of India" says that "considering that one-half of the drugs in the British Pharmacopoeia are indigenous to India, and that most of the rest could be cultivated or exploited, there is clearly an opportunity for developing an industry that has been almost neglected, and the success of the quinine plantations at Darjeeling and in the Nilgiri Hills ought to offer encouragement to any who take up drug-culture on scientific lines. Chambers of Commerce have repeatedly emphasised the need for a Food and Drugs Act, and the Government Chemical Analyst, Bombay, reported two years ago that of seventy-eight samples of drugs examined, no less than sixty-five were adulterated or unfit for consumption."



## Associations' Winter Session.

**Liverpool.**—A meeting of the Liverpool Chemists' Association was held on January 3, when Mr. T. Edward Lescher, of Evans Sons Lescher & Webb, Ltd., read a paper entitled *Things Pharmaceutical as Viewed by a Wholesaler*. He began by refer-



MR. T. E. LESCHER.

ring to the unusually intimate relations between wholesale druggists and pharmacists owing to the nature of the business, these being similar to the trust which the public places in the chemist. Of late years, when in prosecutions under the Sale of Food and Drugs Act the British Pharmacopœia is taken as a legal standard, the pharmacist has usually relied upon the guarantee that he gets from his wholesale house. The right of the pharmacist in such action is undoubted, and the wisdom of his legal adviser in choosing this line of defence unquestionable, but it has

this result—that it makes the wholesale druggist the ultimate person responsible to the public for the purity of drugs and pharmaceuticals, and not the pharmacist. This lessens the responsibility of the pharmacist, and is in part a negation of the original object of his training. The constantly increasing demands of modern science in the number and intricacy of chemical and biological tests and processes of standardisation, which are often lengthy and require a high degree of analytical control, however, render it impossible for the business pharmacist to carry out these tests. Specialisation in industry is a penalty that has to be paid for the increasing demands of science. Mr. Lescher then referred to the work of the wholesale druggists' analytical laboratory, the primary functions of which he gave as:

- (1) To check by analysis or assay finished manufactured goods.
- (2) To examine with a view of acceptance or rejection raw materials and bought manufactured goods.

Arising out of these primary functions is a further one—that of research, under which may be grouped:

- (a) Work done, leading to new products.
- (b) Examining specimens of raw material from new sources.
- (c) Improving existing tests and standards of purity.
- (d) Improvements in processes of manufacture and standardisation.

While any discoveries in the nature of trade secrets are naturally guarded, it is a public duty to make known as far as is possible any addition to scientific knowledge, and when that knowledge has to do with medicine then the public duty is all the more pronounced. Dealing then with the effect of the war on the industry, he said it is no secret to say that at the commencement of the war the Government was very perturbed as to the resources of the wholesale drug and chemical trades. One of the things done by the Government early in the war was to ascertain the manufacturing powers of the country to produce drugs and chemicals, as well as to review the sources of supply of the raw materials needed. The requirements of the Forces and the civil population had to be dealt with in conjunction with provision for the Colonies, the Dominions, and our Allies. After this, due consideration had to be given to neutral countries the world over, who had had to turn mainly to England for so many of their needs. It is a fallacy to imagine that we were almost dependent on Germany for our drugs and chemicals, although Germany was practically our sole supplier of synthetic chemicals and dyes. In addition, important raw materials such as potash, bromine, many roots and plants came largely from Central Europe; Bulgaria has since provided us with a famine in otto of rose, but we can cheerfully bear up against this last-named calamity. The shortage in opium was met by encouraging imports from Persia and India. The Government overhauling brought out our strong as well as our weak points. This country has been the world's headquarters for chloroform, morphine, and other important articles; further, beyond in some cases a shortage in raw material, there has been no failure in pharmaceutical or inorganic chemical supplies. A principle which required settling early in the war was that our Colonies and

Dominions were to be considered *pari passu* with our own people as regards the exportation of medical supplies, and that as little as possible should be done to interfere with the requirements of neutrals, so that British trade might get a firm hold of former German markets, also bearing in mind that the cost of the war had to be largely financed out of exports. As an industry the drug-trade can claim to look back with some satisfaction over the past two and a-half years. As difficulties presented themselves so they were got over, the one object being to keep things going and to answer all calls. As a result, to-day we see most chemicals at greatly reduced prices, and a constant, steady flow of raw materials, the present high freights, insurance, etc., being almost alone responsible for the general higher level of ordinary goods. We have our difficulties still, an example of which is the sugar question, but in this as in other difficulties wholesale druggists have adopted the policy of adequately representing their case to the proper authorities, and the speaker was hopeful that, though the wheels of State move slowly, the sugar trouble may soon be minimised. Mr. Lescher then touched upon the after-war problems, such as the need of maintaining in this country vigorous key-industries, a better system of secondary education, utilisation of science in industry, and the adoption of a metric system of weights, measures, and money. The two qualities which are going "to win through" after the war are grit and imagination.

**West Ham.**—A meeting of the West Ham, East Ham, and Metropolitan Essex Association of Pharmacists was held at Earlham Hall, Forest Gate, London, E., on December 14, Mr. Kirkpatrick in the chair. The question of the supplying of proprietary foods direct from the makers to the consumers was discussed, and it was decided to bring the matter to the notice of the Proprietary Articles Trade Association. The report of the Sub-Committee dealing with the Report on Venereal Diseases was approved. The Hon. Secretary reported that the collection in place of a whist-drive realised 10/., which sum has been forwarded to the Orphan Fund. A resolution was passed requesting the Minister of Munitions to limit the sale of glycerin. Mr. Miller presented a report of the work of the West Ham Pharmaceutical Committee, and Mr. Potter also spoke.

## Colonial and Foreign News.

PROFESSOR DR. HANS GOLDSCHMIDT retired from the direction of the Th. Goldschmidt A.G. in Essen on January 1.

**COCOA SCARCITY.**—The stocks of cocoa, such as powdered cocoa, theobroma oil, press-cakes of cocoa, cocoa preparations, etc., must be declared to the "Kriegscaao Gesellschafft," Hamburg, where the total quantity of any kind in stock exceeds 10 kilos. Stocks over 10 kilos. will be commandeered for the army.

**LIVING ON SUBSTITUTES** has reached such a pitch in Austria-Hungary that the "Oesterreichische Chemiker-Zeitung" issues supplements exclusively devoted to communications about substitutes for food-stuffs, fodder for cattle, and substances to be used for industrial and technical purposes. The title of the supplement will be: "Spar-, Ersatz- und Streckungsmittel." The "Oesterr. Chemiker-Zeitung" was founded in 1837 by Dr. Hans Heger as "Zeitschrift für Nahrungsmitteleuntersuchung"; for twenty-eight years it has been the only periodical for the Austrian chemical industry, and it is now the official organ of the three leading associations, the "Verein Oesterr. Chemiker," the "Zentralverband der chemischen und metallurgischen Industrie Oesterreichs," and the "Oesterr. Gesellschaft zur Förderung der chemischer Industrie zugleich Verband Chemischer Industrieller Oesterreichs."

**MEDICINAL WINES IN RUSSIA.**—The Board of Trade are in receipt of information to the effect that a decree of the Minister of the Interior, dated October 22/November 4, was published in the official "Bulletin of Laws" of Petrograd on November 11/24, laying down regulations governing the manufacture, stocking, and sale in Russia of medicinal wines, which are defined in the decree as being wines which, in addition to the usual component parts of wine, contain medicinal substances in solution in such quantity that the average therapeutic dose of the medicine should not exceed 10 grams of alcohol. In the category of medicinal wines shall be comprised wines specified in the existing Russian Pharmacopœia, as well as others (corresponding to the foregoing definition) authorised by the Medical Council for manufacture and sale. The retail sale of medicinal wines may only be effected by chemists; and, during the war, the sale of such wines is to be allowed by medical prescription only.



## Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C., January 4, 5.30 p.m.

THE chemical and drug markets have not yet fully recovered from the end of the year influences, but the prospects for an active business are good. The anticipated rise in rectified and methylated spirit has been the chief event of the week; all spirituous preparations such as ethers, spirit, ammon. aromat., spirit, ether, nit., rectified and proof tinctures, chloroform, etc., follow this advance. In fine chemicals the tone in acetyl-salicylic acid, salicylates, and salol continues weak. Vanillin is offered at easier rates. Hydroquinone is also cheaper. Citric and cream of tartar are firmer. Business in crude drugs has barely opened yet; cascara sagrada is, however, dearer, with an improved spot demand. War risk insurance from Marseilles and other Mediterranean ports has been increased by 10% per cent., and this affects prices of many roots, seeds, herbs, etc., obtainable from those quarters. Importers of drugs in other directions are inclined to ask higher prices in view of increased freights and insurance. Among essential oils, American sassafras is dearer, clove is firm, and the demand for sandalwood oil has eased off, but values are likely to be very firm for a lengthy period. West Indian lime oil has arrived in fair quantity.

Higher	Firmer	Easier	Lower
Arsenic	Barbitone	Acetyl-	Cottonseed
Alcohol	Citric acid	salicylic acid	oil (crude)
Chloroform	Cream of tartar	Linseed oil	Hydroquinone
Ethers	Gentian	Oxalic acid	Quinine (see
Cascara	Hexamine	Salicylic acid	hands)
sagrada	Phenazone	Soda	Vanillin
Sassafras oil	Shellac	salicylate	
Spirit,			
methylated			
Spirituous			
preparations			

The Drug-auctions will be resumed next week, Thursday, January 11.

### Cablegram.

NEW YORK, January 4.—Business in drugs is quiet. Cartagena ipeeca has been advanced to \$2.25 per lb. Copaiba balsam is steady at 62½c., and balsam Peru is lower at \$3.35. Mexican sarsaparilla is steady at 15c., and cascara sagrada is firmer at 8½c. Opium, menthol, and peppermint oil are unchanged.

ACETIC ACID is still scarce. A considerable quantity has been lost in the Atlantic, making January deliveries short in consequence; 80-per-cent. pure is quoted at from 95¢ to 100¢, and glacial in barrels at 130s. to 135s. per cwt.

ACETYL-SALICYLIC ACID is a little easier, B.P. quality in cwt. lots offering at 19s. per lb. net; there is still keen competition for business.

ALCOHOL.—As from January 1, 1917, the distillers notify an advance of 1s. 2d. per proof gallon in rectified spirit, and now quote 4s. per proof gallon, free delivered London in bond, in returnable packages. We understand that contracts are being made up to the end of March. The excise duty is 16s. 3d. per proof gal. The quotation for finest English grain spirit from distillers (58 o.p.) varies from 33s. 10d. to 35s. 7d. per gallon; 60 o.p. from 34s. 3d. to 36s.; and 64 o.p., 36s. 9d. per gallon, net cash on delivery. The methylators have advanced their prices of industrial and mineralised spirit by 1s. 8½d. to 1s. 9d. per gallon, and

their prices without engagement on their part are now as follows:

	Industrial Spirit		Mineralised Spirit	
	61 O.P.	64 O.P.	61 O.P.	64 O.P.
In one Delivery.	s. d.	s. d.	s. d.	s. d.
100 gals. and upwards ...	7 0	7 1	7 8	7 9
30 " " under 100 ...	7 1	7 2	7 9	7 10
10 " " " 30 ...	7 3	7 4	7 11	8 0

Any quantity taken in packages of 12 gallons or less to be charged 1d. per gallon extra, excepting where the 10 gallon rate applies. No order will be accepted or executed except on the express understanding that it is charged at the price and conditions ruling on the day of dispatch of the order.

ALUM.—Lump is offered by dealers at 20s., and powdered at 22s. per cwt. on the spot.

AMIDOPYRIN is in rather more inquiry, but the price is unchanged at about 56s. per lb.

AMMONIA SULPHATE.—Firm. Home-trade price is 15l. 10s. per ton for January-February delivery. Export prices are: London, prompt, 25-per-cent., 17l. 12s. 6d. per ton net, naked at works; Hull, 24-per-cent., 18l. 7s. 6d.; Liverpool, 18l. 12s. 6d.; Leith, 19l., less 3½ per cent. in bags f.o.b.

AMYL ACETATE.—Technical neutral anhydrous quality can be had at 200l. per ton in earboys.

ARSENIC is dearer at 44l. per ton for best white English powder, American offering at somewhat below this figure.

ATROPINE.—Very limited quantities are available at 117s. 6d. per oz. for sulphate.

BARBITONE is rather firmer at from 90s. to 95s. per lb. net for spot delivery.

BROMIDES.—Demand has revived somewhat on the spot. Higher transport and insurance rates are the means of compelling holders to ask a few pence per lb. more. Potassium crystals have been selling at from 6s. 9d. to 7s. net.

CAMPHOR (REFINED).—Japanese is in more inquiry, with sales of 1-oz. tablets at 3s. 6d.; the value of 2½ lb. slabs, if they can be found, is about 3s. 4½d.

CAPSICUMS.—At auction 332 bags Japanese offered, and 37 sold at 30s. per cwt. for bright red mixed yellow on stalk.

CASCARA SAGRADA.—A good spot business has lately been done (said to be between 40 and 45 tons) at advancing prices, with up to 75s. per cwt. paid, and 80s. is now asked. Prices to come forward have advanced considerably.

CASTOR OIL remains steady, Hull make of first pressing offering in barrels at 71l. 10s. per ton f.o.b. In Liverpool, good seconds Calcutta is quoted at 7d. per lb.

CHLORAL HYDRATE now landing from the Continent can be had at 7s. 6d. per lb. in jars in bond ex wharf for B.P. quality of crystals.

CHLOROFORM.—Owing to increase in cost of raw materials, the makers have advanced their price of pure B.P. by 5d. per lb., and now quote as follows, strictly "without engagement" in view of existing conditions: List price, 3s. 5d.; 50 lb. lots and upwards, 3s. 4d.; 2½ cwt. and upwards, 3s. 3d.; 10 cwt. and upwards, 3s. 2d. per lb. Falling clause is still withdrawn; contracts are booked for delivery over six months.

CITRIC ACID is rather firmer at 2s. 7d. per lb. on the spot.

CLOVE OIL.—Although cloves are firmer, no change is reported in oil, distillers quoting 5s. 10d. to 6s. per lb. as to quantity.

CLOVES firm but quiet, the spot value of fair Zanzibar being 8½d.

COCAINE.—Hydrochloride is likely to remain scarce during the first three months of the year; from 21s. to 22s. per oz. net has been freely paid of late, but only limited quantities have been obtainable at these prices.

COD-LIVER OIL.—Our Bergen correspondent writes on December 27 that no business has been done in cod-liver oil, and the quotation is nominal.

CREAM OF TARTAR is very scarce and firmer on the spot at 185s. per cwt. for 98-per-cent. powder.

ERGOT.—Value of sound Russian is from 1s. 9d. to 1s. 10d. net on spot, with weevily offering at 1s. 7½d.

ETHERS.—The advance in methylated ethers had not yet been officially fixed up to the close of 'Chango hour; it will probably be 4d. per lb.

FORMALDEHYDE.—Although the demand is shrinking considerably on this side, makers in U.S. continue to advance their prices, but doubt is expressed as to whether the present high values will be maintained. Meanwhile, spot parcels are quoted at from 75s. to 80s. per cwt. in barrels.

FORMIC ACID.—For 80 per cent. to arrive 100s. per cwt. is asked.

GENTIAN is firmer, holders asking 77s. 6d. per cwt. for good French on the spot, an advance of 2s. 6d.; Spanish has been sold at 70s.

GINGER.—At auction 304 bags plump limed Japanese were bought in at 42s. 6d. to 45s.



GUAIACOL CARBONATE is still very scarce, but it is expected that consignments will be available shortly.

GUM ACACIA.—Value of fair half-hard Sudan sorts is about 65s., and soft pale sorts vary from 85s. to 127s. 6d., the latter for fine pale.

HEXAMINE.—Rather firmer, with 2s. 9d. to 2s. 10d. now quoted; consumption has, however, fallen off.

HONEY.—A fair quantity of West Indian will be offered next week.

IPECACUANHA is steady, with small sales of Cartagena at 8s. and Matto Grosso at 9s. 6d., with some holders asking 10s. for the latter.

LIME OIL.—Fair arrivals have taken place. Distilled is quoted at 8s. 6d. to 9s., and hand pressed 13s. to 13s. 6d.

LYCOPodium remains plentiful on spot at from 4s. 4d. to 4s. 5d. per lb. net.

METHYL SALICYLATE.—Although competition is less keen, market is still weak at 6s. per lb.

MILK-SUGAR remains very firm, with limited quantities of Dutch offering at 175s. per cwt. net on the spot. A New York advice dated December 23 announces an advance of 4c. per lb. owing to scarcity, 32c. to 36c. being quoted in barrels.

MORPHINE.—Makers are still unable to undertake new business in view of the high price of opium.

NAPHTHALENE.—Powder can be had at from 30s. to 31s. per cwt. on the spot.

OILS (FIXED).—*Linseed* is lower, closing at 50s. per cwt. in pipes landed and 51s. landed in barrels. *Cottonseed* is lower at 50s. for crude in pipes, and pale refined in pipes on spot is nominal; for sweet refined in barrels from 58s. to 60s. is quoted. *Rape* is firm, with ordinary brown naked on spot offering at 54s.; British refined in barrels is 57s. to 59s., and Japanese in cases is 51s. c.i.f. for December-January shipment. *Cocunut* is firm at 65s. for Ceylon in hogheads on spot and 63s. in pipes. *Cochin* on spot is 65s. to 67s., and shipment 64s. c.i.f. London pressed is 52s. 6d. *Hankow Wood* oil is 76s. spot and 65s. c.i.f. *Soya* is quiet; *Hull* (spot) crushed is 49s., and in London December-January shipment is 48s. 6d. c.i.f. *Lagos Palm* is dearer at 51s. on spot, and 48s. ex quay Liverpool.

OPUM remains firm, with sales of 10-per-cent. Persian on the spot at 35s. per lb.; 11-per-cent. druggists' quality has also been sold at very high figures, and is very scarce. Arrivals comprise 200 cases of Indian, which are available for morphine makers.

PEPPER.—Quiet, the value of fair black Singapore on spot being 10½d., Lampong 10½d., and Tellicherry 10¾d.; to arrive Singapore black for December shipment has been sold at 10d. Singapore white on spot is 11d., basis fair, Penang 11d., and Muntok 11½d.

PEPPERMINT OIL.—In view of the continued freight difficulties as regards consignments from the United States, spot holders ask 14s. 6d. London terms for H.G.H. Tin oil is extremely quiet at 10s. to 10s. 6d. net on the spot.

PHENAZONE rather firmer at from 34s. to 35s. per lb. net on the spot. The French prohibition on exports is strictly applied, and only permits for small parcels of late have been allowed.

POTASH BICHRIMATE is offered by dealers at 1s. 5½d. per lb. net.

POTASH CHLORATE is offered by dealers at 2s. 4d. for commercial crystals, and at 2s. 3d. per lb. for powder.

QUININE is a little weaker on the part of those second-hand holders anxious to realise, and sales of sulphate have been made at 2s. 4d. per oz. Position so far as makers are concerned remains firm.

RHUBARB.—Fair flat high dried has been selling at 1s. 4d., but for good 1s. 5d. is wanted. Rough round is quoted at from 8d. to 8½d., and the value of medium to bold good round Shensi is 3s. 6d. per lb.

SALICYLATES.—Holders are getting from 5s. 6d. to 5s. 9d. per lb. for small lots of B.P. acid powder, and from 6s. to 6s. 6d. for sodium salicylate.

SALOL is offered at from 10s. 6d. to 11s. per lb. net on the spot, and rather cheaper to come forward.

SANDALWOOD OIL.—Demand has slackened off recently, but there is no likelihood of cheaper prices. New imports of East Indian distilled from Mysore wood can be had at 50s. per lb. net.

SASSAFRAS OIL.—American natural is dearer at 3s. 10d. per lb. on the spot.

SHELLAC is dearer on spot, usual standard quality TN Orange offering on a basis of from 144s. to 145s., and fine orange 177s. 6d.; AC Garnet is 155s. Futures have been more active, the sales including March delivery at 147s. to 148s. to 147s. 6d., and May 149s. The landings in London during December were 830 cases and the deliveries 3,433 cases; stock 54,089 cases, against 93,713 cases.

THYMOL ex ajowan-seed is offered at from 33s. to 34s. per lb. net on spot.

TURPENTINE has been excited, a large business having been done, American on spot closing at 54s. 6d. per cwt.

VANILLIN is weaker at from 26s. 6d. to 27s. per lb. net.

### Maximum Prices for Sulphuric Acid.

A circular-letter was issued on December 30, 1916, by the Ministry of Munitions, substituting as from January 1, 1917, the following maximum prices for sales of sulphuric acid for those set forth in circular-letters of February 11 and 28, 1916. These refer to sales of sulphuric acid of all descriptions and for all purposes unless expressly accepted, the prices being the maximum per ton for acid delivered into tank, wagon, cart, or barge at makers' works: Class A—Arsenical acid, 140° Tw. at 60° F., 70s. Class B—Non-arsenical or de-arsenicated, 144° Tw. at 60° F., 85s. Class C—Arsenical, 95 per cent. H<sub>2</sub>SO<sub>4</sub>, 130s. Class D—Non-arsenical or de-arsenicated, 95 per cent. H<sub>2</sub>SO<sub>4</sub>, 140s. Certain recommendations are also made as to allowances for variation in strength, charges for filling and hiring of packages, etc. Further particulars on these points and copies of the circular-letter referred to can be obtained on application to the Director of Acid Supplies, Ministry of Munitions of War, Explosives Department, Storey's Gate, Westminster, S.W.

### Drug and Chemical Trades in 1916.

Raimes & Co., of York, in their annual review of the drug and chemical trades during 1916, state that there has been a wonderful activity in spite of war conditions and the fact that so many of our male population are serving their country abroad. Speaking broadly, crude drugs and produce from neutral and Allied countries, although there are some notable exceptions, have been but little affected by the war, the increased cost of freight and labour having been counterbalanced by the fact that the Central European markets have been closed against them; but the difficulties of shipment and the unavoidable delay which has taken place in handling and delivery have proved a serious inconvenience. The report gives details of the outstanding features of the year. The restrictions on sugar proved a real hardship, and it is to be hoped the Sugar Commission will relax their conditions. In their annual report on the chemical-markets Sir S. W. Royce & Co., Ltd., state that the year's results will no doubt be satisfactory to most people in the chemical-trade; it is remarkable how well business has worked in spite of many difficulties, which, it may be noted, seem likely to be increased in the near future. A curtailment of supplies, both home and foreign, seems probable, through difficulties and dangers of transit and further diversion of labour and material to war purposes. Copper sulphate commenced the year at 45s., advancing steadily to 52s. 10s. in April, and falling to 50s. in July, since when there has been a strong advance to the present figure of 65s. 10s. Grey acetate of lime, commencing at 32s. in January, advanced to 55s. in May, when it came under control; price has since fallen very considerably, and is at present steady. Acetate of soda advanced from 50s. to 80s., declined to the present value of 75s., and is now quiet. English white acetate of lead advanced from 69s. to 105s., and later lost ground considerably in competition with American make, but has become active during the last month or two with the considerable fall in acetic acid. Nitrate of lead advanced from 63s. to 80s., and has since fallen steadily to its present value of about 61s. Potash carbonate (90 to 92 per cent.) opened the year at 150s., advancing to 170s. in May; during the late summer considerable quantities were brought forward from Archangel, and the price fell to 115s. in October, but has since advanced to 125s. Ammonia salts advanced strongly in January: carbonate from 4½d. to 6d., and is now 6½d.; muriate from 27s. to 34s., and sal ammoniac from 55s. to 70s. Borax has been advanced from 25s. in January to 28s. in April and to 33s. in June. Phosphate of soda has varied between 24s. and 30s., and is at present steady at about 29s. Bichromate of potash has ranged from 1s. 4d. to 1s. 10d.; bichromate of soda has been from 8½d. to 1s. 4d., and large sales have been made over the next three years at 5d. per lb. Crude carbolic acid was lowered slightly in January, and has since remained unchanged; crystal carbolic has gone through the year without alteration; liquid carbolic advanced 3s. per gal. in the first six months, and has since fallen 5d. to present firm value of 2s. 5d. Bleaching-powder commenced at 14s., and with reduced quantities available has advanced to present value of about 32s.; caustic soda has been in good demand throughout, supplies from U.S. helping consumers, and is about 3s. per ton dearer; ammonia alkali advanced from 3s. 5s. in January to 18s. 10s. in June, and has since declined to 15s. Soda chlorate has fallen steadily from 1s. 5d. to about 11d., a liberal supply from a new source abroad largely accounting for this.



## Arrivals of Chemicals, Drugs, etc.

The following is a selection of arrivals in the Port of London during the period from December 27, 1916, to January 2, 1917, inclusive. The countries specified are those from which the goods are consigned. Goods in transit are not included.

Acetyl-salicylic acid (Swz.) 5 cs.	(U.S.) 6 dms. 4 cs. 1 box, (Jp.) 14 cs., (China) 26 cs., Hong-Kong 150 cs., (Java) 10 pkgs., (B.I.) 5 cs., (Br. Guian.) 2 djhs.; <i>synthetic</i> (Swz.) 2 cs.	Papain (Cey.) 4 cs. Pareira brava (Fr.) 19 bgs. Pepper (Siam) 50 bgs., (S.S.) 978 bgs. Perfumery, unrated (Swz.) 78L., (Jap.) 150L., (Fr.) 153L.
Albumen, egg (Ch.) 1,581L.	Ethyl chloride (Swz.) 1 cs. Eucalypt. - leaves (Fr.) 4 bls. Eucalypt. oil (N.S.W.) 4 pkgs., (Vic.) 160 cs.	P h e n o l p h t h a l e i n (Swz.) 2 cs. Pills (U.S.) 70L. Podophyllin resin (U.S.) 5 cs. Pomegranate bark (Fr.) 3 bls. Potash bromide (U.S.) 16 cs. Potash chlor. (Fr.) 46 bls. Potash iodide (Jp.) 4 cs. Potato starch (Jp.) 800 cwt. Quicksilver (Sp.) 1,800 lb. Quinine (Holland) 120,350 oz.
Anbrine (Fr.) 13 cs. Ammon. brom. (U.S.) 12 cs. Ammon. phosph. (U.S.) 140 bls. Anethol residue (Fr.) 3 cs. Angelica-root (Fr.) 4 bls.; leaves 10 bls. Anise oil, star (Ch.) 25 cs. Annatto (Den.) 1 tank. Antim. cr. (Ch.) 67 tons. Antim. ore 347 tons. Antim. sulph. (U.S.) 1 kg. 9 bls. Argol (Sp.) 2,245 bgs. 362 cks. Arrowroot (B.W.I.) 1,217 cwt. Bals. peru 4 cs. Barytes (Sp.) 4,000 bgs. Basil-leaves (Fr.) 5 bls. Belladonna - leaves (Fr.) 20 bls.; stems 15 bls. Betanaphthol (U.S.) 4 bls. Bismuth ore (N.S.W.) 863L. Bismuth tribromophenate (Swz.) 2 pkgs. Cactus flow. (Fr.) 1 bale. Calc. carbide 12,720 cwt. Calc. citrate (B.W.I.) 44 bls., (It.) 183 cks. Camphor (Jp.) 50 cs. Camph. flowers (Jp.) 25 cs. Camph. monobrom. (U.S.) 6 kgs. Canary-seed (Sp.) 600 bgs. Capsicum (B.E. Af.) 21 bls. Caraway-seed (Fr.) 11. Carbon black (U.S.) 200 cs. Casein (N.Z.) 1,000L. Charcoal (Holl.) 100L. Chemical products, unrated (Fr.) 225L. Chewing-gum 401 cwt. Chloral hyd. (U.S.) 10 cs., (Swz.) 5 kgs. Cinchona (Holl.) 785 bls. Cochineal (Canary I.) 26 pkgs. Coconut oil, unrefined (Cey.) 67 pps. 2 pns. 3 hds. 126 pkgs.; <i>refined</i> (Holl.) 60 cks. Copra 13,540 cwt. Cotton-seed (Egy.) 600 tons. Cream of tartar (Fr.) 10 pkgs. D i m e t h y l a m i d o - p y r a z o l o n (phenazone) (Swz.) 5 cs. Drugs, unrated (U.S.) 29L. Egg-yolk (Ch.) 7,192L. Essential oils, natural (Fr.) 3 dms. 8 cs., (Sp.) 3 dms. 18 cs., (It.) 37 cs., (B.W.I.) 12 cbs. 3 dms. 33 cs., (Cey.) 5 dms.,	Formaldehyde (U.S.) 210 bls. Galls (Ch.) 1,900L. Gamboge (Siam) 12 cs., (Fr.) 10 cs. Gelatin (Fr.) 662L. Gentian (Fr.) 14 pkgs. Ginger (Jp.) 32 bgs. Glucose (U.S.) 3,436 cwt. G. copal 940 cwt. G. damar (S.S.) 291 cwt. G. kauri 166 cwt. G. yacca (S. Aust.) 2,000 cwt. Herbs, dried (Jp.) 12 bls., (Sp.) 105 bls. Hydrastis (U.S.) 13 bls. Hydroquinone (U.S.) 16 cs. Indigo (B.I.) 31 cts. 193 cs. Kola (B.W.I.) 10 cwt. 2 and 25L. Lavender flow. (Fr.) 3 bls. Lime-juice (B.W.I.) 131,615 gal. Linseed (B.I.) 21,153 bgs. Liquorice-root (Sp.) 24 bls. Lycopodium (U.S.) 18 bgs. Mace (B.W.I.) 18 bls. Magnesia, milk of (U.S.) 175 pkgs. Maize starch (U.S.) 663 cwt., (Holl.) 200 cwt. Male-fern root (Fr.) 22 bls. Marjoram herb. (Fr.) 13 bls. Menthol (Jp.) 15 cs., (Ch.) 1 cs. Methyl salicyl. (U.S.) 5 cs. Milk-sugar (Holland) 100 cs. Myrrh (Aden) 21 cwt. Nutmegs (S.S.) 20 bxs., (B.W.I.) 36 bls. 21 pkgs. Oils, fixed: Arachis (Fr.) 6 pps. 24 cks.; cod (Jp.) 1,000 cs.; fish (Jp.) 1,000 cs.; herring (Jp.) 500 cs.; illipe (Fr.) 40 cs.; olive (Fr.) 2 tuns 72 gal., (Sp.) 50 tuns 90 gal.; rape (Jp.) 1,150 cs.; soya (Jp.) 700 cs.; sperm (Jp.) 1,520 cs.; rape-seed (Jp.) 250 cs. Ointment (U.S.) 606L. Opium (B.I.) 200 cs. Orange-peel (Fr.) 39 bls. Paraldehyde (U.S.) 6 cs.	Swz.) 2 cs. Rosin (U.S.) 250 bls. 535 cks. Saccharin (Swz.) 10 cs. 17,600 oz. Saffron (Sp.) 3 cs. Safron (U.S.) 3 dms. Salicylic acid (U.S.) 11 bls. 5 kgs. 3 pkgs. 2 dms. Salol (U.S.) 35 kgs., (Fr.) 2 cs. Sandalwood oil (B.I.) 275L. Senna (Fr.) 3 cs. Soap-powder (U.S.) 250L. Soda benzoate (Swz.) 4 cks. 24 cwt. Soda nitrate 2,000 tons. Soda salicylate (U.S.) 2 cwt. Sodium, metal 740L. Stearine (N.S.W.) 600 bgs., (Arg. Rep.) 200. Stramonium (Fr.) 8 bgs. Sulphuric acid (Fr.) 4 cs. Surgical goods, bandages, etc. (U.S.) 588L. Talc (Fr.) 330L. Tannic acid (U.S.) 5 kgs. Terpeneol (U.S.) 300L., (Holl.) 9 cs. Terpin. acet. (Holl.) 1 cs., (Fr.) 6 cbs. Toilet-powder (U.S.) 45L. Trional (Swz.) 1 cs. Turpentine (U.S.) 4,550 bls. 10,600 cks. Urodonal (Fr.) 12 cs. Uva ursi (Sp.) 30L., (Fr.) 15 bls. Vacuum - flasks (Swz.) 1,034L., (Jp.) 15L. Vermilion (H.-Kong) 20 cs. Wax, bees' (Mor.) 18 bgs., (Fr.) 125 bgs., (B.E. Af.) 82 bgs., (Port. E. Af.) 2 pkgs. Wax, paraffin (U.S.) 3,147 cwt., (D. Borneo) 400 cwt. Wine-lees (Fr.) 88 bgs. <i>Cancelled entries</i> , October 4, albumen (Ch.) 4,050L.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

## Trade-marks in South Africa.

Sir,—An Act has recently been passed in the Union of South Africa establishing a Union Register of Trade-marks, thereby protecting marks registered thereunder in all the Provinces of the Union—viz., Cape Province, Natal, Transvaal, and Orange Free State Province—but not covering Rhodesia, which is outside the Union and still retains a separate register of its own. Hitherto it has been necessary to register in each Province in order to obtain protection in all. The new Act is expected to come into force early in 1917, and I am now sending out powers for clients to enable protection to be claimed at the earliest possible moment. By effecting Union registration owners of trade-marks are not only enabled to cover all the Provinces, but are saved the expense of renewing their existing provincial registrations (if any).—Yours faithfully,

56 Ludgate Hill, E.C.

REGINALD W. BARKER.

## Keeping Account-books.

"I have never known a man whose books were posted to date."—*Xrayser II.* (C. & D., December 30, 1916, p. 51).

Sir,—Allow me to introduce myself to "Xrayser II." as a pharmacist who keeps his books up to date. I devote a quarter of an hour to them every Sunday morning, half an hour to them at the end of each month, and one hour to them at the end of each year. The result is that at the time of writing this (11 A.M., December 31) I know exactly how I stand for the past year. Not only so, but I can tell at a glance what were my cash sales, credit sales, photographic drawings, and the number of customers I had on any day, week, or month of the year. I know what I expended on goods, carriage, postage, wages, etc., during any week or month, and I can tell what proportions of my purchases were for drugs, patents, photo material, and confectionery respectively. My "books" consist of one ledger for my dealings with the wholesale houses, one ditto for my credit customers, a ls. notebook (sufficient for six or seven years' details) for daily and weekly entries, and a 6d. notebook (sufficient for twenty-five years' transactions) for the monthly and yearly summaries.

I am, yours, etc.,

LEGO. (171/95.)

## Germans Not Winning.

Sir,—"Xrayser II." was on the pessimistic side when he wrote last week on British chemical industry. Scores of synthetic chemicals are being made to-day which were not produced before the war because German makers kept our market by selling at prices which the chemicals could not be made at here. Mr. Whittaker, in his recent lecture to the Royal Society of Arts, referred to many such, and I venture to quote a passage that appeals to pharmacists. He said: "Salicylic acid is another important derivative of phenol, both from a medicinal and a colour point of view. It was not made in this country prior to the war, but its manufacture is now firmly established. It is largely used both medicinally and in the manufacture of colours of the highest importance, including fast chromo blacks, reds, oranges, and yellows, also direct cotton reds and greens. The great shortage of these colours has resulted from the scarcity of this product due to the phenol being required for the manufacture of explosives." We all know that the difficulties that our chemical manufacturers have had to overcome have been stupendous. Machinery, materials, and men have been short, because they are in use for making munitions. Nevertheless we are beating the Germans in the chemical as well as the military field, which is something done. The Germans thought and said that we could do nothing. Poor things!—Yours truly,

PHARMAKON. (170/46.)

## Minor Micro-biology.

Sir,—May I remind Mr. Skinner on a point in regard to this subject? I presume he has assured himself of the limitation given in Section 8 of the Pharmacy Act, 1852—viz., "The examination shall not include the theory and practice of medicine, surgery, or midwifery." I cannot realise how anything directly relating to serum and vaccine therapy cannot be hit by that statutory provision; but



there is another point—viz., the attitude of the medical professional bacteriologist, especially if he be attached to a university, towards the non-medical practitioner is not favourable, and no opportunity is lost to put down such students at the time of study and afterwards. This has occurred on many occasions, particularly in the witness-box, when the non-medico has scored thus: Counsel asks, "Are you competent to answer that question, seeing that you are not a medical man?" Reply: "I am, for I have the honour to teach medical men this and kindred subjects." It is a most difficult task to convince the medico that most, if not all, the discoveries in bacteriology have been made *not* by the learned ones of the medical profession, but by such non-medical workers as Pasteur, Ehrlich, and many others. I think the Pharmaceutical Society will be up against medicine if it attempts to put micro-biology in the Minor examination, and I think also many legal difficulties will arise.—Yours truly,

MICROBIOPHARMACIST. (168/51.)

#### Chemists Co-operating in Sales.

SIR,—The letter of "Countryman" makes very interesting reading to many of us who have similar experiences. We wonder why not say to the rest of our brethren, Join Ucal and have a Happy New Year.—Yours faithfully,

HERBERT JACKSON.

SIR,—"Countryman" in his own letter provides the cure for the evil that his logic proves to be existent. He says "that no proprietors are to blame for making full use of all trade opportunities." Obviously the pharmacist has only himself to blame if he does not do the same, and if he sees his trade, connection, and goodwill going to the grocer or store, then his methods of doing business need to be adjusted and overhauled. No advertiser has the power—even if he has the desire—to restrict the sale of an article to one particular class of trader—custom decides this.

ANDREW CREWDSON. (174/7.)

#### Compulsory Membership.

SIR,—I fail to see how your Editorial remarks under my letter in your issue of December 23 or the paragraph by "Xrayser II." in that of December 30 weaken the case for compulsory membership of the Society. Whatever income the Society may have had, and on whatever that income may have been spent, cannot alter two facts: (1) that until the Society is composed of every qualified pharmacist it cannot be said to be truly representative of pharmacy; (2) until it is so fully representative any step it may take in the interest of pharmacy cannot carry the weight it should do. Except for that compulsory power I am in agreement with "Xrayser II." when he says he does not desire to see the Society's compulsory powers extended. What is surely needed is extension of its powers to act in accordance with the desire of its members.

Yours, etc.,

C. BREESE.

Streatham.

[The point of our remarks on December 23 was that the Society has been well paid for examination and registration work. Such profits have been derived from it that the Society has spent enormous surpluses in matters that were solely for the Society, and not for chemists and druggists as such.—EDITOR C. & D.]

#### "The Jack-boot."

SIR,—I am not convinced that your correspondent "Soloman" is justified by his letter in the exalted pseudonym he has adopted. The unwisdom of his remarks in what he terms the Leeds boycott should influence few and convince no one. There is perhaps a prematurity about the decision of Leeds to exclude from their midst all and sundry who are not identified by annual subscriptions with Bloomsbury, and, in the light of the Society's existing organisation, I think the action somewhat precipitate and ill-timed, although in other respects justifiable and extremely commendable. It is a curious and regrettable fact that, although there is scarcely a pharmacist who does not admit the manifest need and urgency of a more complete and representative pharmaceutical organisation, one perceives on all sides a disposition on the part of many to regard the Local Association from a purely provincial aspect, and to attempt to demonstrate their independence of the parent body. It is a rare thing to find the larger view exercised, although the cry of Federation echoes and re-echoes throughout the spaces of pharmaceutical politics. It has been stated over and over again how completely and intimately the Pharmaceutical Society is the Pharmacists' Society, to be made or marred by pharmacists, to be useful and progressive, or futile and retrogressive, in proportion to the life-blood and energy which is poured into it by the very men who are the material and purpose of its constitution. To doubt the advantages of such a membership and to suggest that it would not lead to an accession of power is sheer puerility, as also the statement

that a centralised institution is necessarily, extravagantly official and hidebound. One might as well quarrel with the centralisation of the human heart and say that the system would be more efficient with a number of subsidiary organs pulsating independently of each other at intervals towards the extremities. Of course such reasoning is irrational and a mere contradiction of fact. There can never be successful organisation apart from centralised administration, and it is equally true to state that no organisation will ever be worth a moment's thought which cannot count on the undeviating loyalty and intimate co-operation of its elements as in part provided for to-day by the Local Associations in their relationship to the Pharmaceutical Society. Once let pharmacists realise that their Local Associations are in effect the Pharmaceutical Society, definitely and positively integral portions of a complete whole, and they will realise the pettiness, the mean belittling selfishness of aloofness from the Society. Their first impulse will be to narrow the meshes of the net to the uttermost degree, so that not a single man shall remain outside the fold of the Society. The Society is to-day potter's clay in the hands of the pharmacists, for them to mould and form into the finest federal structure possible for the emancipation of an impoverished and discouraged community, growing daily more decadent and irresolute from its myopic and unenterprising conception of even the elements of healthy and vigorous organisation. If the Council-meetings are monthly pleasure-trips to the metropolis, as averred by "Soloman," then he is far guiltier than the most blame-worthy of the councillors, for he is damping down the very embers of enthusiasm and co-operative purpose which would for ever sweep such representation from our midst.—Yours,

Southend-on-Sea.

SYDNEY F. BODY.

### Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

#### Jay Macsims as he writes them.

- (1) Who was the man who had the courage and common-sense to go to Boot for a big subscription?
- (2) Whoever he is, he has done as great a service to the trade as Glyn-Jones did with P.A.T.A. and C.D.A.
- (3) Because the Pharmaceutical Council will now be able to drop the useless fighting with companies and get on with business instead of bunkum.
- (4) It is amusing to hear Skinner shout, "I didn't mean it," when Currie showed up the bacteria trick.

#### Digesting the "Diary": Pepsin and Nitric Acid.

"During the Christmas holiday I studied the C. & D. Diary for 1917. It is most useful. I like the now blotting-paper arrangement, also the closer lines for writing. I should like to have seen a short quotation of pharmaceutical interest printed for each day of the year. The Pharmaceutical Formulas on pp. 368-9 are a queer lot. The digestive tonic (77) on p. 368 looks interesting. I suggest that it would be useful experience for an apprentice or junior to estimate the peptic activity, if any, of this mixture immediately after mixing, and after standing a week. Then try it without the diluted nitric acid; again without this and the tr. cinchonae co.; and again without these and the elixir saccharin. On the other hand, leave out the pepsin altogether, and trust to the acids, tonics, alcohol, and carminatives to produce the desired effect. Alternatively, and finally: *fiat experimentum in corpore*."—C. W. Kemsey-Bourne (West Bromwich).

### Legal Queries.

H. T. (171/54).—The law as to deductions for income-tax on rent is that the tenant may deduct or retain out of the next payment of rent made by him the amount of income-tax assessed and charged and actually paid by him. Consequently, if the tax was actually and properly paid by the tenant prior to his paying the Christmas quarter's rent, the tax would be deductible from that quarter's payment.

Nomen (171/31).—An unqualified assistant of a limited company who sells scheduled poison without the direct supervision of the qualified superintendent of the company, is, like the company, liable to prosecution under Section 15 of the Pharmacy Act, 1868, for illegal sale of poison. The superintendent of the company who does not actually take part in a transaction for the sale of poisons cannot be regarded as protecting either the assistant or the company.



*Veterinary* (173/26).—The paragraph in the *C. & D. Diary*, p. 382, will guide you as to the conditions which apply to the practice of veterinary surgery. The Act does not prevent unqualified persons treating animals, but they may not use titles and descriptions which are reserved for registered veterinary surgeons. If the man about whom you complain poses as a qualified veterinary surgeon, you must get evidence to that effect before submitting the matter to the Royal College of Veterinary Surgeons.

*E. C.* (168/72) desires to know what is the income-tax relief given under Section 26, Finance Act, 1916, to owners of property. This section provides that where any person is charged to income-tax or has paid income-tax, either by way of deduction or otherwise, and claims and proves that his total income from all sources does not exceed 2,000*l.*, he shall be entitled to the repayment of such part of the income-tax paid by him as will reduce the amount of income-tax on his unearned income to the amount which would have been paid if the tax were charged on that income at the following rates: 3*s.* if the total income did not exceed 500*l.*; 3*s.* 6*d.* if the total income exceeds 500*l.* but does not exceed 1,000*l.*; 4*s.* if the total income exceeds 1,000*l.* but does not exceed 1,500*l.*; and 4*s.* 6*d.* if the total income exceeds 1,500*l.* but does not exceed 2,000*l.* The effect is that income-tax is payable in the first instance at 5*s.* in the pound, and a repayment may then be claimed according to the scales set out. But no one is entitled to relief under the section in respect of any income the tax on which he is entitled to charge against any other person, or to deduct, retain, or satisfy out of any payment which he is liable to make to any other person: such would be the property tax on ground-rent payable to a ground landlord. As stated last week, p. 63, the allowance for each child has been 25*l.* since April 5, 1915.

## Miscellaneous Inquiries.

*J. M.* (146/3).—Many aniline dyes answer well for leather, but the definite information you ask for is not available so far as we are aware.

*F. M.* (28/12).—The methyl-salicylate odour is the only pronounced feature of the rupture-ointment. These preparations generally contain either tannin or a stimulating ingredient.

*Thrix* (167/58).—HENNA.—The colouring-matter of henna is darkened by alkalies and ferric salts, but as to what particular colour is produced we can find no definite information. We should imagine that ferric salts will give a black, as there is doubtless tannin present in the leaves. We do not know of a liquid preparation which gives the same colour as that yielded to the hair by henna.

*E. E. M.* (New South Wales) (167/38).—The Coloured Supplement is the recognised medium in this country for obtaining situations, but you can foresee the difficulties which will arise from your residence on the other side of the globe when it comes to the point of a personal interview.

*A. V. T.* (Amsterdam) (167/46).—BATH-CRYSTALS.—The basis is sodium carbonate, which is obtainable in needle-like crystals and also pea-size crystals. These are sprayed with the perfume and colouring-matter dissolved in spirit, the spirit being allowed to evaporate before bottling the crystals.

*G. M.* (Johannesburg) (170/47).—We are unable to give you any useful information regarding the manufacture of dolls' heads.

*G. C.* (172/4).—BOOKS ON SIGHT-TESTING.—Laurance's "Visual Optics and Sight-testing" (10*s.* 6*d.*, Temple House, Temple Avenue, London E.C.); Taylor and Baxter's "Key to Sight-testing" (10*s.* 6*d.*, J. & H. Taylor, Birmingham); "The Chemist-Optician" (published by the *C. & D.*). The last-named is out of print, but a copy might be obtained by advertising in the Coloured Supplement.

*H. K. W.* (72/23).—BOOKS ON THE MICROSCOPE.—Heath's "Beginner's Guide to the Microscope" (1*s.*, P. Marshall & Co.); Cross and Cole's "Modern Microscopy" (6*s.*, Baillière, Tindall & Cox); Hogg's "The Microscope" (10*s.* 6*d.*, Routledge).

*A. E. W.* (171/29).—TWINE-PASTE.—You will need to conduct a few experiments as to the most suitable paste for "laying" and polishing rough twine. Probably a rye-flour and glue paste would be a useful medium, and perhaps tragacanth or soap may be a necessary ingredient in the paste.

*Sunbronze* (164/16).—SUNBRONZE LIQUID.—We have no formula for this, but suggest that you experiment with such harmless colours as logwood extract and caramel.

*P. B. & Co.* (163/60).—Honey can be employed in place of simple syrup in your cough-mixture, using the same weight of honey as sugar.

*Matches* (168/53).—MATCH-MAKING.—See *C. & D.*, November 4, 1916, p. 52.

*P. H. G.* (165/25).—WASHING-POWDER.—This contains powdered cocoanut-oil soap, soda crystals, and silicate of sodium. Some representative formulæ are given in "Pharmaceutical Formulas."

*C. C.* (152/47).—(1) BOOKS ON THE HAIR.—Leftwich's "Preservation of the Hair" (Wright, Bristol, 2*s.*); Startin's "Care of the Skin and Hair" (Wright, Bristol, 2*s.*). (2) We do not know any books on the manufacture of American candies.

*H. C. C.* (164/74).—We are unable to find the formula for eczema-ointment to which you refer.

*J. O. E.* (172/15).—You will find in "Pharmaceutical Formulas," p. 515, several formulæ for FREEZING-MIXTURES. One of the best is a mixture of 1 part each ammonium nitrate, sodium carbonate, and water. You may, however, prefer a snow or ice mixture consisting of snow 5 parts, common salt 2 parts, and ammonium chloride 1 part; but you must be careful in applying this mixture to any inflamed part of an animal, as it may do damage. Water may be added to the solid ingredients.

*R. H. R.* (163/18).—CASCARA DROPS:

Ext. cascara sag. liq. ...	3j.
Ext. glycyrrh. liq. ...	3ij.
Spt. chlorof. ...	5ij.
Syrup. ad ...	3v.

Dose: One to two teaspoonfuls to be taken at bedtime every night.

*Rad. Rhei* (29/23).—(1) LIQUOR AMMONIE AROMATICUS.—The following is a cheaper substitute for sp. ammon. arom., but it is not spirit-free:

Ammonium carbonate ...	4 oz.
Strong solution of ammonia ...	8 oz.
Terpeneless oil of lemon ...	13 minims
Terpeneless oil of nutmeg ...	54 minims
Alcohol (90-per-cent.) ...	6 oz.
Distilled water ...	149 oz.

The oils are first dissolved in the spirit, and this mixture is added to the ammonia solution.

(2) AQUEOUS PAREGORIC is made by using in place of the spirit ordered in the Pharmacopœia a mixture of acetic acid 2½ parts, glycerin 25 parts, and distilled water a sufficiency to make 100 parts.

*A. W.* (170/18).—BUTTERSCOTCH.—The following recipe produces a good product. For the brown variety of toffee which you desire the dark-brown sugar is employed.

Sugar ...	4 lb.
Water ...	15 oz.
Cream of tartar ...	½ dr.
Butter ...	2 oz.

Put the water, sugar, and cream of tartar into a pan and stir till boiling; do not stir it after it begins to boil. Add the butter after removing from the fire, but do not stir in.

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Jan. 15, 1867.

### The Development of Legislative Plans.

We commence a new volume in which we hope to record the proceedings connected with the final settlement of the great question that has so long agitated the chemists and druggists of the United Kingdom. The members of the Pharmaceutical Society, as well as their unincorporated brethren, acknowledge that the time has arrived for protecting the trade of the chemist and druggist by an Act of Parliament based on the recommendations of the Select Committee of the House of Commons, and the public are prepared to accept any measure that will insure to them the service of qualified dispensers of medicines. If a good Bill for regulating the qualifications of chemists and druggists be not passed in the coming Session the leaders of the trade will be to blame.



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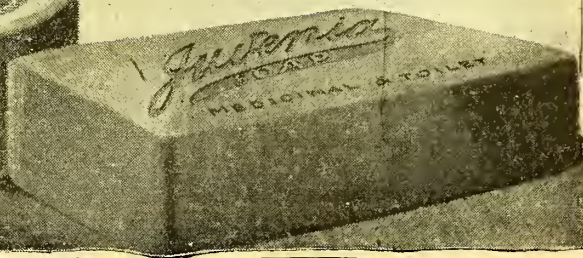
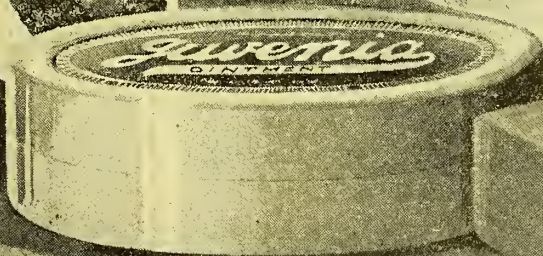
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## *Expert Opinions of Interest.*

*From "The Lancet," Nov. 11, 1916.*

We have carefully examined this specimen of Lanolin, and we find it ANSWERS ALL THE REQUIREMENTS OF THE BRITISH PHARMACOPEIA. According to our examination it contained only 0.14 per cent. of moisture and 0.03 per cent. of mineral matter. These results ARE A LONG WAY BELOW THE LIMITS SET OUT IN THE OFFICIAL DEMAND. Further, we found that its acidity in terms of Oleic Acid was only 0.42 per cent., against a presumable limit of 0.7 per cent. It has been pointed out that in the test for acidity in the British Pharmacopœia it is recommended to make a solution in ether of 0.2 gramme for titration with N/10 alkali, which would place the limit of free (oleic) acid at 7 per cent. It is an obvious slip; a solution should be made of 2 grammes, and then the limit becomes 0.7 per cent. This matter is of some importance, as any increase in the amount of free fatty acid in Lanolin is opposed to its values as a basis in many directions.

*From "The Chemist and Druggist," Oct. 21, 1916.*

BRITISH LANOLIN.—We have had the opportunity of examining specimens of adeps lanæ B.P. and adeps lanæ hydrosus B.P., manufactured by the London Pharmaceutical Refiners, Ltd., Martin's Yard, Endwell Road, Brockley, S.E., whose sole selling agents are the Produce Brokers Co., Ltd., 24-28 St. Mary Axe, London, E.C. The product is an interesting example of the success that follows British method and thoroughness, for the London Pharmaceutical Refiners, Ltd., have perfected their process of manufacture from British material, so that the adeps lanæ produced not only conforms with the requirements of the British Pharmacopœia, but is indistinguishable from adeps lanæ which had been imported from Germany for many years. The characteristics of the product accord with the characters and tests of the British Pharmacopœia, except that in one or two respects the L.P.R. product is superior. For instance, the amount of free acids permitted by the B.P. is almost double that contained in the L.P.R. product, and it is notable that this is quite free from objectionable woolly odour. Adeps lanæ is put up in 28 lb., 56 lb., and 1 cwt. kegs, as well as 3½ cwt. barrels. The manufacturers and agents supply it only in wholesale quantities, but the leading wholesale druggists hold stock, and can supply either the anhydrous or hydrous form.

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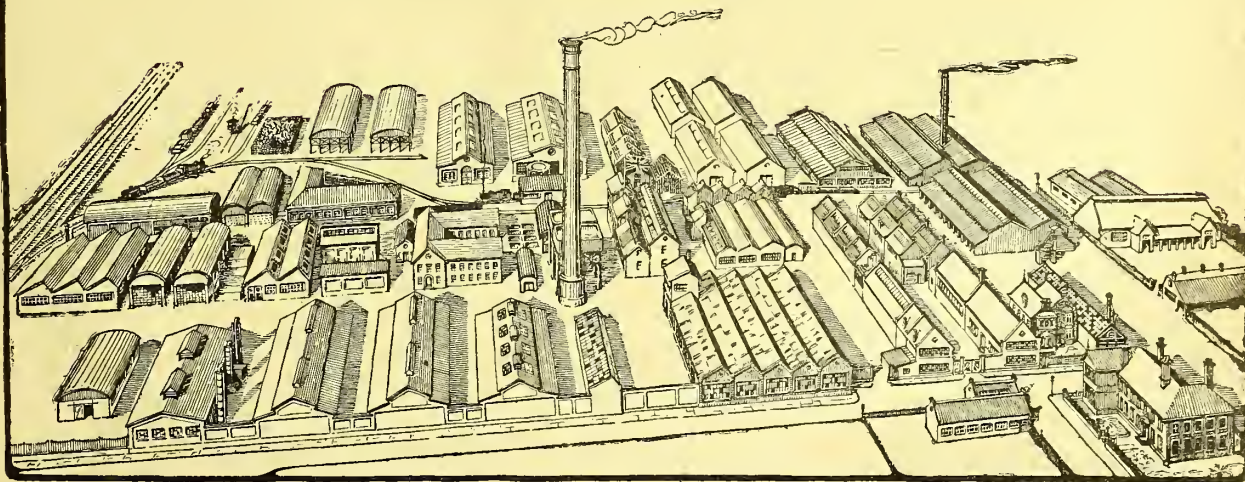
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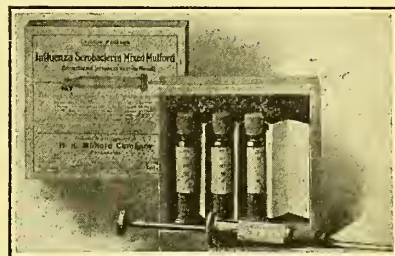
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Streptococci	125	250	500	1000 million
Pneumococci	125	250	500	1000 million
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Staphylococci	250	500	1000	2000 million
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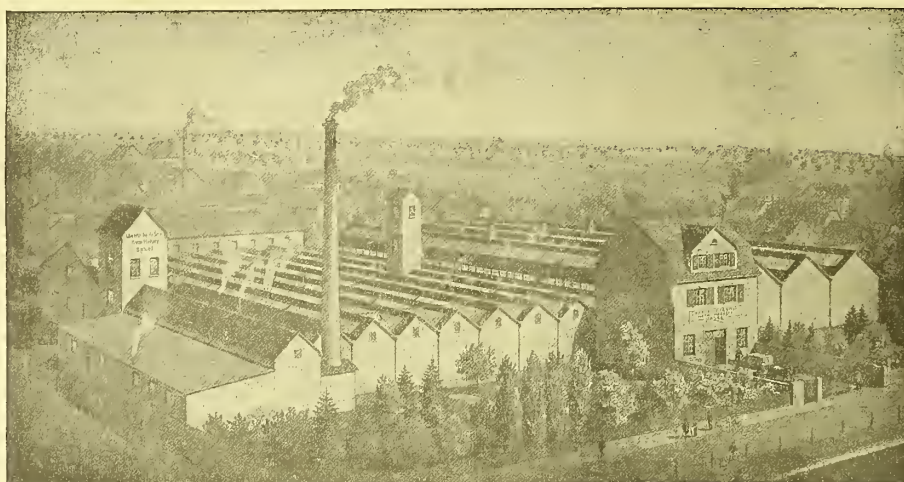


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Myrrh, Gum, English Ground, 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/10 lb.

**N**aphthalene, Candles, 7 lbs. @ 7½d. lb.

Nux Areca, 1 cwt. @ 55/- cwt.; 7 lbs. @ 7d. lb.; powder, English ground, @ 80/- cwt.; 7 lbs. @ 9½d. lb.

**O**l. Amygdal. Ang. B.P., 9 lbs. @ 2/10½ lb.

Ol. Anethi Ang. B.P., 1 lb. @ 30/- lb.

Ol. Anisi, E.I., 66 lbs. @ 3/8 lb.; 16½ lbs. @ 4/- lb.; 4½ lbs. @ 4/5 lb.; 1 lb. @ 4/8 lb.

Ol. Aurant., 12 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.; not guaranteed absolutely pure.

Oil of Bays, genuine W.I., 1 lb. @ 14/6 lb.

Ol. Cajuput., B.P., 214 oz. bots. @ 4/9 lb.

Ol. Camphor. Essent., White, 40 lbs. @ 8½d. lb.; Brown, 40 lbs. @ 120/- cwt.

Ol. Caryoph. Ang. B.P., 9 lbs. @ 6/4 lb.; 4½ lbs. @ 6/7 lb.

Ol. Cassia, 16 lbs. @ 4/6 lb.; 6 lbs. @ 4/9 lb.

Ol. Cinnamon, 1 lb. @ 32/- lb.; 1 oz. @ 2/3 oz.

Ol. Citronella, 9 lbs. @ 2/3 lb.

Ol. Coco Nuclei, finest White, 80 lbs. @ 71/- cwt.; 40 lbs. @ 73/6 cwt.

Ol. Eucalypt., P.B., 1 cwt. @ 2/5 lb.; 28 lbs. @ 2/6 lb.; 9 lbs. @ 2/7 lb.

Ol. Geranii Gall. Opt., 1 lb. @ 28/- lb.; 8 1-oz. bots. @ 2/3 oz.; 1 oz. @ 2/6 oz.; Turc., 1 lb. @ 15/- lb.; 4 ozs. @ 16/6 lb.

Ol. Gynocardia, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb.

Ol. Juniperi Ligne Exot., 9 lbs. @ 5/3 lb.

Ol. Lavand. ab Flor., 5 lbs. @ 17/- lb.; 1 lb. @ 18/- lb.

Ol. Menth. Pip. English, 5 lbs. @ 52/- lb.; 1 lb. @ 52/6 lb.; Hotchkiss original bots., 21 oz. each @ 15/9 lb.; 6 bots. @ 15/6 lb.; 18 bots. @ 15/- lb.; American, 20 lbs. @ 11/- lb.; 4½ lbs. @ 11/6 lb.; 1 lb. @ 12/- lb.; Japanese, 60 lbs. @ 4/6 lb.; 5 lbs. @ 5/- lb.

Ol. Morrhuæ, 1915, finest non-freezing, 2-gall. tins @ 20/- per gall.

Ol. Myrrbane, 9 lbs. @ 3/- lb.

Ol. Myristica, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.

Ol. Nucis Pallid., 2 gall. tins @ 7/6 gall.

Ol. Oliva, P.B., good yellow, guaranteed pure, 45 gall. barrels @ 6/2 gall.; 2 gall. tins @ 7/6 gall.

Ol. Origan Rub., Coml., 28 lbs. @ 2/- lb.; 9 lbs. @ 2/3 lb.

Ol. Peach Kernel (so-called), 1 cwt. @ 1/5 lb.; 56 lbs. @ 1/6 lb.; 9 lbs. @ 1/7½ lb.

Ol. Pulegii B.P., 5 lbs. @ 6/6 lb.; 1 lb. @ 6/10.

Ol. Ricini Alb. Opt. Medicinal, 40 lbs. @ 90/- cwt.; 9 lbs. @ 11d. lb.; for export, 1 cwt. drums recommended.

Ol. Rosmarini, Coml., 28 lbs. @ 2/3 lb.; 9 lbs. @ 2/6 lb.; B.P., 9 lbs. @ 3/- lb.; 1 lb. @ 3/3 lb.

Ol. Santal. Flav. Ang. B.P., 5 lbs. @ 47/6 lb.; 1 lb. @ 48/0 lb.

Ol. Sassafras, genuine, 28 lbs. @ 3/10 lb.; 1 lb. @ 4/5 lb.

Ol. Theobroma, B.P., 8-oz. tabs., 28 lbs. @ 2/2 lb.; 7 lbs. @ 2/4 lb.

Ol. Wintergreen, Artificial, 5 lbs. @ 8/3 lb.; 1 lb. @ 9/- lb.

Opium, B.P., 14 lbs. @ 37/6 lb.; 3 lbs. @ 38/- lb.; 1 lb. @ 39/- lb.; powder, 6d. lb. extra.

\*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted

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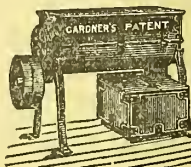
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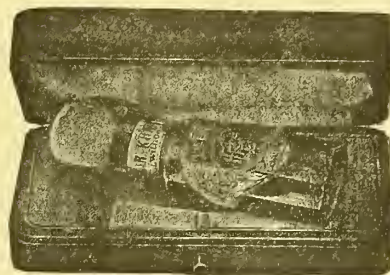


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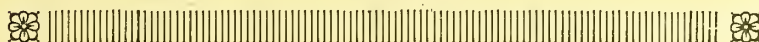
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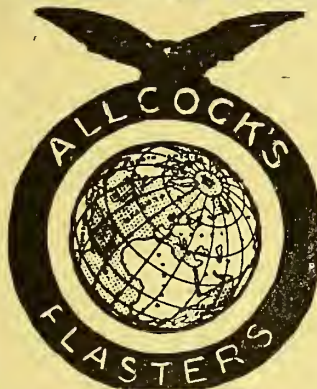
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$\frac{1}{2}$ pint ...	34/6 doz.
1 " ...	65/- "
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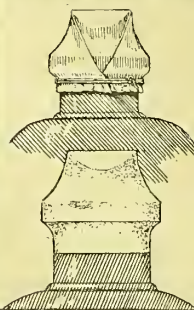
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Cream for the Hair, we are  
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as required, up to 40-gall. casks,  
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# "Agrippa"

PATENT No 17617

## BAND TEAT & VALVE

(BRITISH MADE BY BRITISH LABOUR)

The  
**Nearest Copy**  
to the  
**Natural Nipple**

(Note the patent band  
around the teat that grips  
tightly to the neck of the  
bottle.)

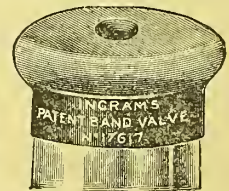


"AGRIPPA" Band Teat (Black  
or Transparent Rubber).

The "AGRIPPA" Band Teat will  
fit any boat-shape feeding  
bottle, and will not slip off.

The Teat and Valve can be steri-  
lised or cleansed by simply boiling  
in water, and the quality of rubber  
will not be deteriorated thereby.

The Patent Band  
Valve is devised ac-  
cording to the most  
up-to-date theories,  
and affords a means  
of regulating to per-  
fection the flow of  
the milk food.



"AGRIPPA" Band Valve  
(Black or Transparent Rubber).

The "AGRIPPA" Patent Band Teat and Valve are protected  
by the P.A.T.A., and are supplied on the understanding they  
will not be re-sold to Chemists and Retail Trade at lower prices  
than quoted below.

GOODS.	Minimum Wholesale Prices to Chemists,	Minimum Retail Prices.
"AGRIPPA" TEAT (Patent No. 17617) Black or Transparent	2/6 per Doz. Net 27/6 per Grs. Net (for orders of 3 Doz. and over).	<b>3½d.</b> EACH.
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OBTAINABLE FROM ALL WHOLESALE HOUSES.

Patentees and Manufacturers—

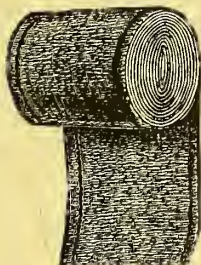
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## LONDON



# CRÊPE BANDAGES. BRITISH MAKE.

LIGHT AND  
COMFORTABLE  
TO WEAR.



ELASTIC,  
BUT CONTAINS  
NO RUBBER.

Fig. 1331.—The "Saffron" Crepe Bandages, fast edges, 5½ yards long when stretched out—

			Width 2 in.	2½ in.	3 in.	3½ in.
Medium substance for ordinary wear	...	...	per doz. 8/2	9/7	10/9	13/6
Stout " " hard	...	...	" 10/6	12/7	14/9	17/6

Full directions for use with each Bandage.

Cotton Elastic Web Bandage ... per doz. yards, 2 in. 4/7, 2½ in. 6/-, 3 in. 7/2

Leg Bandage, 3 yards long, fitted with tapes, ready for use, each 2/-

## THE "EMPIRE" ELASTIC HOSIERY.

Cotton Elastic, ordinary quality, for hard wear ... per pair 4/7 3/7 3/7 3/10  
5% discount allowed for prompt cash off above prices. Carriage paid on orders of £2 and upwards.

We are the right House for British-made Goods, Anti-Rheumatic Rings, Catheters, Enemas, Elastic Hosiery, Hot Water Bottles, Injection Syringes, Pessaries (Quinine, &c.), Sponge Bags, Trusses, Water Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber Goods.

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# RENDELL'S

## SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus:

Registered  
Trade Mark,   
without which  
none are genuine.  
No. 182,688.

*W. J. Rendell*  
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Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

### IMPORTANT NOTICE AND CAUTION.

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of W. J. RENDELL, "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

## W. J. RENDELL,

INVENTOR AND SOLE MAKER,  
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*Mail  
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## INTERESTED?

*MANY Clients make good  
incomes this way.  
SOME make fortunes.  
YOU can make the former—  
perhaps the latter.*

**INVESTIGATE!**

*May I help you?  
I am a Fellow of  
Inc. Soc. Advt. Consultants  
Enough said!*

**F.A. Degen, F.I.S.A.C.**

*Mail Order Specialist for Chemists & Druggists,  
c/o THE C. & D., 42, CANNON ST., LONDON E.C.*

WRITE TO-DAY  
FOR MY  
FREE BOOKLET  
"BUSINESS  
BY POST"

## SHOPFITTINGS, SHOWCASES, SIGNS, &c., &c.

Of Best Quality, Excellent Style,  
High-class Finish, at Lowest Prices.

SHOPS MODERNISED. ESTIMATES FREE.

Competent Fitters sent to all parts.

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LIVERPOOL

## HOW TO BECOME A DISPENSER.

A Profession for which Women are wanted,  
both now and after the War.

*Brief Extracts from the periodical, "Everywoman" London, Nov. 4, 1916.*

THE girl who is a dispenser is able to do her "bit" to help win the war; she can release a man for the firing line, and when Peace comes she can fill up a gap where one has given his life for his country. . .

**WHAT IT COSTS TO LEARN.**—The fees vary very much. At WESTMINSTER COLLEGE, Clapham Road, for instance, the inclusive fee for six months is only £8 8s., and this includes books and apparatus. . . . If a girl is living in the country and unable to attend a College, she can take a course of

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The fee is only £1 1s. She will then have Lectures sent her every week from WESTMINSTER COLLEGE, and when she can get to London she will be fairly well up in the work before she enters the College.

**GOOD SALARIED APPOINTMENTS.**—They vary from 25s. to £2 10s. a week. . . . We would advise any girls about to start a career to consider very seriously this profitable profession.

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Principal - - - HENRY WOOTTON, B.Sc. (Lond.)

ENTRIES CAN NOW BE RECEIVED FOR THE  
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**Separate Class Rooms & Museum for Lady Students.**

The number of Students who have passed the Pharmaceutical Examination from the London College since its establishment exceeds that from any other school.

*For Prospectus, &c., apply to the Secretary,*

London College of Chemistry and Pharmacy, 361 Clapham Road, London, S.W.

## THE South of England College of Pharmacy

(Concilio et labore)

186 CLAPHAM ROAD, LONDON, S.W.

Principal—H. LUCAS, Ph.C., F.C.S.

### THE COLLEGE FOR SUCCESS!

This College provides systematic training in Pharmacy, Chemistry and Botany, and the Allied Sciences, and prepares Students (ladies and gentlemen) for the Major and Minor Examinations of the Pharmaceutical Society and for the Assistants' Examination of the Society of Apothecaries.

### NEW COURSES OF STUDY

commence on Sept. 28 for the Winter term, and on Jan. 1 and April 2, 1917, for the Spring and Summer terms.

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North Finchley, London, N.

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### ALL STUDENTS PASSED

and all at their FIRST attempt.

Thus the excellent Results of July were repeated.

*Full particulars of new Minor Course, January 9, 1917, or of new 'Hall' Course, January 30, or of the wonderfully organised Postal Courses for all Examinations will be sent on application.*

## COLLEGE OF OPTICS GLASGOW and EDINBURGH.

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Qualified by the various Examinations in Optics and Sight-Testing of the College of Optics, Glasgow; the Worshipful Company of Spectacle Makers, London; and the British Optical Association, &c.

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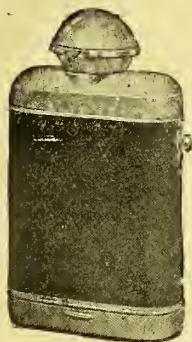
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Write at once for particulars of above and D.C.O. Examination. Note New Address where all communications should be directed.  
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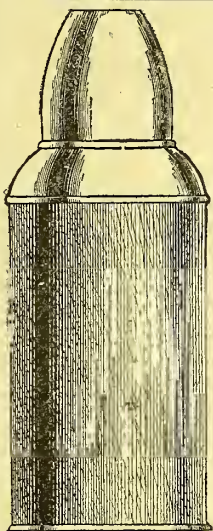


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Clerkenwell Optical Works, 142 ST. JOHN STREET, and 52 CLERKENWELL ROAD,  
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## Vacuum Flasks



**SPECIAL  
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PRICE

**36/-**

DOZ.

PINT SIZE,  
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Leatherette & Enamelled  
Aluminium Cup.

A First-class article.

Special Price for quantities.

We purchased nearly two  
years ago 10,000 at a  
Special Price. These are  
just being delivered.

Packed in original cases containing 250.

WE CANNOT REPEAT THESE.

**MILLARD BROTHERS, LTD.**

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There is no better  
Flask made than the

**"ALL  
BRITISH"  
VACUUM  
FLASK,**

of which not only the protective  
outer casing but the essential  
glass vacuum bottle are

**MADE IN ENGLAND.**

SOLE MAKERS—

**AERATORS LIMITED**

*"Prana" Sparklet Works,*

UPPER EDMONTON, LONDON, N.





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## Fine Old English Lavender Water

The British Perfume  
that appeals to all.

Blended from an original formula, and packed in attractive Bottles and Boxes at the following Wholesale prices :

2 oz. . . . @ 17/- per doz.  
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4 oz. . . . @ 30/- per doz.  
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Also in  $\frac{1}{4}$ ,  $\frac{1}{2}$  or 1 lb. Bottles  
for refilling or retailing intact.

Samples and terms on application to—

PRICE'S, Battersea, London, S.W.

OVER 100 % PROFIT  
ENSURED & PROTECTED (P.A.T.A.)  
for sellers of

## Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail	Minimum wholesale.	
1/-	1/-	7/6	} per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

### SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 3 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,  
DEVON WHARF, LTD.  
Emmott Street, Mile End, London, E.



Make your  
old Hat a  
new one.

In bottles, 7d.  
each, in separate neat cartons, with suitable brush.

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

NO GLOSS. NO POLISH.

On the P.A.T.A.

WRITE FOR TERMS, PATTERNS,  
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WHITAKER & CO., COLOUR WORKS,  
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London Depot: 80-82 Clerkenwell Road, E.C.  
"Glossy" Series supplied if desired.  
Special Non-Inflammable Series for Export. Est. 1878.  
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**Emulsions.** 8, 12 and 16 oz.**1 oz. R.S. Limes. Mexicans & Panels.****5 oz. Screw Jars** (Hand Made).**Large Stocks of MALE SYRINGES.****Stocks of DOUCHE LININGS.**  $\frac{1}{2}$  oz., 1 oz., and 2 oz. Sizes. 2, 3 & 4 pint.**Stocks of VIALS, LIMES, TOBINS, etc.****NEEDLES FOR HYPODERMICS**

Nos. 1 to 13.

Large quantities in Stock.  
Call and see them.**EYE  
DROPPERS.**

Various shapes.

**Jules Lang & Son** CHARLTON WORKS, CHARLTON PLACE,  
ISLINGTON, N.

Telephone: North 1344 (2 Lines).

Telegrams: "Assorted London."

**SOLYPTOL  
SOAP**TOILET  
SOAP, 10d.A high-grade  
Toilet Soap of  
marked Antiseptic  
properties.  
Non-irritating.  
Agreeably perfumed.  
Lathers in hard water.  
Assists the complexion.  
Heals cuts & abrasions.  
Invaluable in the  
Nursery.

SHAVING SOAP, 10d.

**A READY SELLER WITH GOOD PROFIT.***Chemists should write for terms.***F. H. FAULDING & CO.,** 54 Ct. Tower St., London, E.C.  
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**EUCALYPTUS OIL, Rectified**

Eucalyptol content 70 to 80%

Optical rotation .... 0 to 1

Specific Gravity .... .919 to .928

ABSOLUTELY FREE FROM PHELLANDRENE.

Quotations by cable. Wholesale trade only.

**BURNSIDE & COMPANY**

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EAGLEHAWK, VICTORIA, AUSTRALIA.

**FIELD'S****"SIANARA" Toilet Soap**  
(Regd.)**With the Enchanting Perfume of OLD JAPAN.****AN ENTIRELY NEW LINE IN  
ROUND BATH**

To sell at 5½d., 4½d., 3½d., and 2½d. per tablet.

**Let us Quote you for your Proprietary Soaps.****J. C. & J. FIELD, Ltd.,** Toilet Soap **LONDON, S.E.**  
Experts.

Telegrams: "OZOKERIT, LAMB, LONDON." ESTABLISHED 1642.

Telephone: HOP 3905.



# FEATHEREDGE RUBBER SPONGES

THOROUGHLY  
SANITARY  
AND  
DO NOT  
HARDEN

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Very  
**GOOD  
PROFITS**

for the  
Retailer

-□-

OBTAINABLE  
OF ALL  
DRUGGISTS'  
SUNDRIES  
HOUSES



**Markt & Co., London,**  
—LTD.—

American Merchants,  
SOLE IMPORTERS,  
98-100 CLERKENWELL RD.,  
LONDON, E.C.

## ELEY BROTHERS, LIMITED

specialise in the manufacture of  
the following articles at the  
lowest prices:

### Shaving Stick Cases

### Oval and Round Tops

for Powder Tins, Cruets,  
Dredgers, etc.

### Metal Boxes

for Dentifrices, Soap Tablets, etc.

### Ferrules

for Walking Sticks, Whips,  
Bamboo Fittings, etc.

### Pencil Fittings

in any of the following metals:  
Brass, Copper or White-metal  
(nickel or silver - plated),  
Aluminium and Jewellers' Metal  
(Tombac).

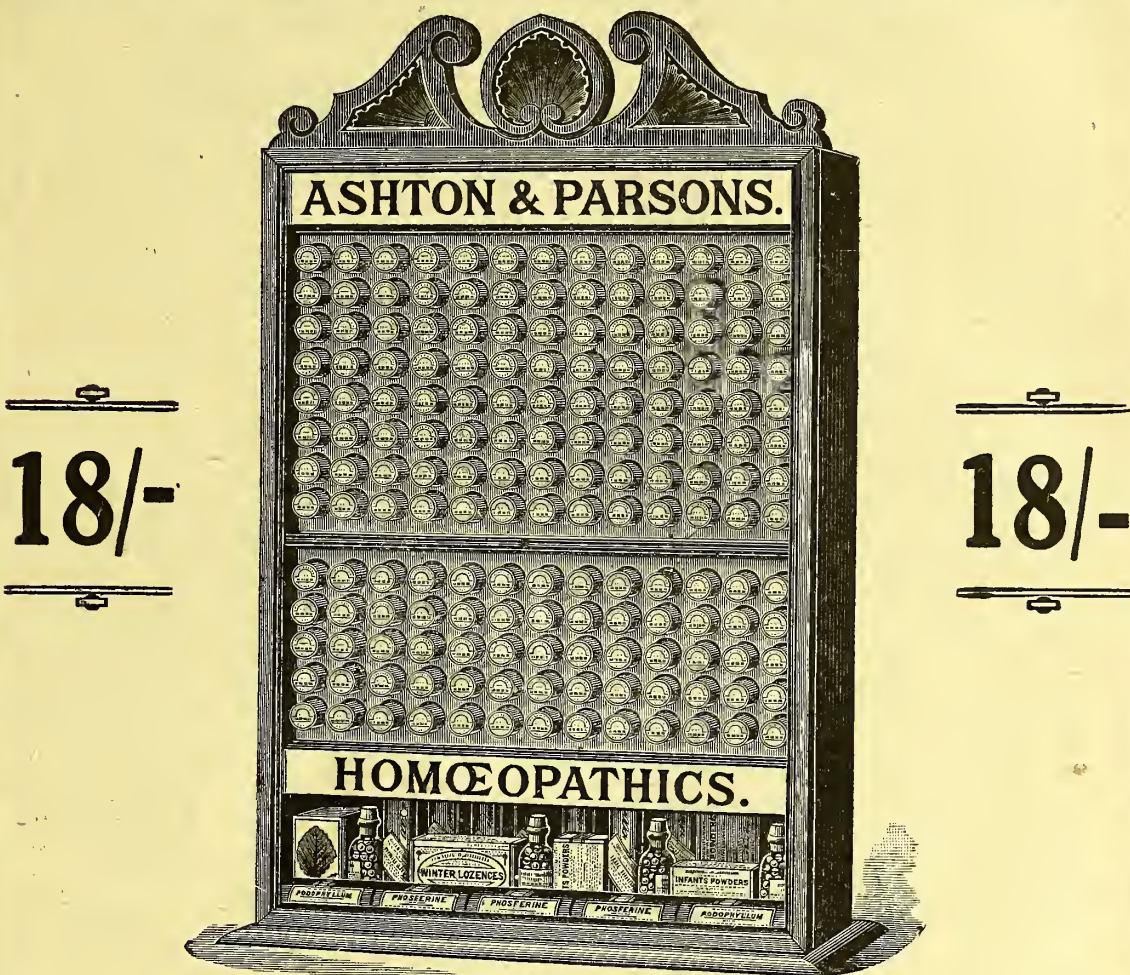
*During the continuance of the War we cannot undertake orders to make any of the above goods requiring one or more of the metals for their manufacture of which the use for commercial purposes has been prohibited by H.M. Government; but we invite inquiries, as we still have some articles in stock which were made before the prohibition was issued.*

**ELEY BROTHERS, Ltd.**

(Dept. 21), Edmonton, London, N.



# ASHTON & PARSONS' HOMŒOPATHIC SHOWCASE



**THE "A. & P." SHOWCASE**  
PRICE - - 18/-

ASHTON & PARSONS supply their Showcases at actual cost price  
No need to purchase a large quantity of unsaleable stock to obtain a  
so-called "free" Showcase.

WRITE FOR ILLUSTRATED LIST, POST FREE.

ASHTON & PARSONS, Ltd., Ludgate Hill, LONDON, E.C.



By Royal Warrant of Appointment  
to H.M. The King.



By Royal Warrant of Appointment  
to H.M. The King.

Only  
**ONE**  
Address.

**DAY & SONS,** ESTABLISHED 1840.  
**CREWE, LTD. (CREWE)**  
HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only  
**ONE**  
Address.

**LARGEST SALE IN THE WORLD.**



### DAYS' BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills, and Low Condition in all Stock.

Price 1/8 per bottle.

### DAYS' HUSKOLEIN.

Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

6/6 per bottle.

### DAYS' "ZOMO-SAL."

For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 7/6, 20/-, and 40/-

### DAYS' RED DRINK

OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving, Prevents Milk Fever, and cures Bad Cleansing.

12/- per doz. packets.

The Ewe Drench for Ewes, 3/6 per doz.

### DAYS' OILS

(THE PURIFIED DRIFFIELD OILS)

Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

2/6 and 6/- per bottle.

### DAYS' WHITE OILS.

A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

2/6 and 6/- per bottle.



### DAY & SONS' "ORIGINAL" MEDICINE CHESTS

Price £1 4s., £2 4s., £5, and £10 10s. ; Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock.

WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest Illustrated is similar to that at £5 and £2 4s.

Great Specialities.

**ONLY GENUINE FROM**  
**DAY & SONS, CREWE, LTD.,**  
**CREWE, ENGLAND.**

**LIBERAL TERMS FOR FOREIGN BUYERS.**



# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, JANUARY 6, 1917

## TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

**PROVIDED the MONEY is TELEGRAPHED**

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

## BEST RESULTS EVERY WEEK!

There is no need to guarantee the genuineness of the advertisements in 'The Chemist & Druggist Supplement.'

Everybody in the drug-trade knows that only *bona-fide* paid-for advertisements are inserted. The 'Chemist & Druggist Supplement' knows no dead-heads, for it gives

## THE PUBLICITY IT PAYS TO PAY FOR.

## CHEMISTS' TRANSFERS.

### Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

- 1.—MAYFAIR (Special Opportunity).—For immediate Disposal, high-class Dispensing and Retail Business; returns about £1,200; gross profit between £650 and £700; the business is known to us, and we can recommend it; valuation terms.
- 2.—LONDON, S.E. (Market Thoroughfare).—For immediate Sale through death of late owner, ready-money Retail; turnover about £700 per annum, plus N.H.I. Dispensing; about the valuation of stock and fixtures required.
- 3.—OXFORD STREET (Near).—Sacrifice for immediate Sale; Retail and Dispensing Business; returns about £600, present rate; scope for development; handsomely fitted shop and good stock; will accept reasonable offer.
- 4.—RICHMOND (Surrey), Near.—Very old-established Business, held by vendor many years, now retiring; returns between £850 and £900; profit above the average; first reasonable offer will be accepted.
- 5.—PORTLAND STREET STATION (Within Easy Distance of).—For Disposal, through death, good middle-class Business, Retail and Dispensing; excellent position in busy thoroughfare; returns £1,000; net profit £300; price to be arranged; equitable terms only required.
- 6.—KENT (Suburban).—Well-established Business, Retail and Dispensing; returns £900; net profit about £250; full investigation is invited; price £275 on entry and £175 by instalments to meet buyer's requirements.
- 7.—LONDON (Northern Suburb).—Brisk Ready-money Retail Business, situate in busy main thoroughfare; returns under management £1,400 to £1,500; terms, £200 on entry and £175 by instalments.
- 8.—WEST OF ENGLAND (Health Resort).—Select, good-class Business, admitting of extension; returns about £1,400; well-stocked shop and good house, on lease; price £1,200.
- 9.—BRISTOL CHANNEL.—Old-established Business, Retail, Dispensing, and Agricultural; situate in best position in good market town; returns about £1,700; about £1,000 required, for which full value is offered.
- 10.—BIRMINGHAM. — Retail and Dispensing Business, established many years; returns under management about £600, formerly £1,000; there is also an appointment giving an income of £80 yearly; satisfactory reason for disposal; valuation terms entertained.
- 11.—SOUTH COAST.—Good middle-class Retail, Dispensing, and Photo Sundries; situate in main road in chief business centre; returns between £1,000 and £1,100; net profit exceeds £350; attractive shop and large residence; price £450.
- 12.—HANTS.—Mixed Country Business; established about 100 years; returns £800; net profit £300; large double-fronted shop; comfortable residence; price £450.
- 13.—S.W. OF ENGLAND.—Thoroughly sound Retail, together with Wines and Spirits; returns about £1,600; price £50 and valuation of stock and fixtures; good-sized house, with garden attached.
- 14.—CARDIFF.—Retail and Dispensing, together with Wines; returns £1,500; excellent premises, situate in main thoroughfare; vendor desires to take up an appointment, and for a quick sale will accept the value of stock and fixtures.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**



## PARSON C. BAKER

(Pharmaceutical Chemist),

**Trade Valuer & Transfer Agent.**

Recommended by The British Drug Houses, Ltd.; Messrs. Meggeson & Co.; Barclay & Sons, Ltd.

Valuer to the Association of Manufacturing Chemists.

1 Mountfield Road, CHURCH END, FINCHLEY, N.

Tel. No.: Finchley 812.

## THOS. TOMLINSON & SON

**CHEMISTS' VALUERS, TRANSFER AGENTS,  
AND EXPERT STOCKTAKERS,**

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

## BATTAM & HEYWOOD

(ESTD. 1837.)

**CHEMISTS' VALUERS, TRANSFER AGENTS,  
AND EXPERT STOCKTAKERS.**

Balance Sheets Prepared. Books Audited.

3 DAVIES STREET, BERKELEY SQUARE, W.

Telephone: GERRARD 2169.

## BERDOE & FISH

**VALUERS & TRANSFER AGENTS,**

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

### NO CHARGE TO PURCHASERS.

1.—SOUTH COAST.—First-class Retail and Dispensing Business, with scope for large increase; commanding position; low rent; elegant fittings and good stock; owner retiring through old age; valuation only required, about £700; part can remain; personally inspected and recommended.

2.—WILTS.—Unopposed Light Country Retail, with Mineral Waters; returns £1,200; net profit £300 clear; large house and garden; stock worth £650; price £700.

3.—MIDLANDS (Death Vacancy).—Light Family Retail and Agricultural, in pleasant market town; easy hours; returns £900; net profit £500; good opening for Photo and Optics; one other Chemist; price £425, or first reasonable offer.

4.—SOMERSET.—Light Retail Business, in good market town; owner retiring through ill-health; returns £500; plenty of scope; net profit £200; price simply valuation, about £300.

5.—SUSSEX COAST.—Well-established Light Retail, Dispensing, and Prescribing Business in rising seaside resort; returns about £650; good profits; splendid house; attractive Pharmacy; price only £250; worth attention.

6.—LONDON (Western Suburb).—Profitable Cash Retail; no immediate opposition; present returns average over £20 weekly; net profit about a third; owner, joining up, will accept about £150 for quick sale.

7.—LONDON, N.W.—Good middle-class Retail; no Panel or Poisons sold; returns £600; net profit about half; low rent; lock-up shop, double-front and handsomely fitted; price £275; trial allowed.

### STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early. Full particulars and terms sent on application.

Why you should have stock taken is very clearly defined on page 90 of the *C. & D. Diary*, 1917.

Have you read it?

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

## BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

LONDON.—Dispensary and small Retail in working-class neighbourhood, S.E., about to be closed on account of management difficulty; can be purchased at valuation of stock and fixtures, £80 to £100. Apply, 88/12, Office of this Paper.

MANCHESTER.—Old-established Retail and Dispensing business on main road; good living accommodation; the freehold premises also for Sale. 88/14, Office of this Paper.

IN Spite of the War. — Returns 1914 £600, 1915 £900, 1916 £1,400, next year will be £2,000; a well-placed market position in Midland Agricultural town; windows three sides, doors at both ends; established 130 years; rent £75; good general Retail with Dental connection of 40 years; accident compels; price £900; good working stock; Partnership entertained. 169/67, Office of this Paper.

SHROPSHIRE.—Family Business for Disposal; good Prescribing business; no opposition; fine opening for Dentistry; excellently fitted shop; good house accommodation; £19 year rent; can be had at valuation, about £200, or nearest offer; owner called up; returns £600; few Patents. Apply, 72/26, Office of this Paper.

CHEMIST'S Shop for Sale, old-established, in Holloway; price £250 inclusive, or near offer. 88/33, Office of this Paper.

FOR Sale, the old-established Chemist and Druggist's Business carried on by the late Mr. Andrew Lawson at No. 65 Perth Road, Dundee. For particulars apply to Andrew Hendry & Sons, Solicitors, 39 Murraygate, Dundee.

OLD-ESTABLISHED Chemist's and Druggist's Business in thickly populated district of Manchester for Sale through death of owner; well-known Recipes included; double-fronted shop; good living accommodation at low rental; ingoing about £350; immediate possession. For further particulars apply, Mellors, Basden & Mellors, Chartered Accountants, Nottingham.

£60 CASH.—Drug Store for immediate Sale in S.W. suburb; present takings over £8 weekly; profits above 50 per cent.; N.H.I. much needed; expenses low; fixtures and fittings (modern) by arrangement; war bargain worth attention. To save needless correspondence particulars will be given at personal interview by appointment. 88/300, Office of this Paper.

£85 OR best offer secures Drug Store (Midlands); must be sold; owner called up; one of the best pitches for a qualified man; no opposition for miles; splendid opening for N.H.I., calling capacity over 8,000; plenty of scope to man who can stock right. Particulars, J. Smith, Drug Stores, Shelfield, Walsall.

£115 for immediate Sale; lock-up shop or otherwise; good middle-class neighbourhood; smart, modern fittings; respectable building; close to big Station, S.E.; selling because manager has left. Apply to Monks, 106 Coldharbour Lane, Camberwell, S.E.

£150.—Cash Drug Stores; owner called up; chiefly Prescribing; no N.H.I.; no Poisons; no near opposition; takings last 3 years £246, £360, and £440; gross profits quite half; qualified man could easily double again; rent £17; small house and garden. "Rhei" (84/22), Office of this Paper.

## FOR SALE.

SMALL National Cash Register for Sale; total adder and in good condition; cheap. Write to F. Hume, 77 Hayles Buildings, Elliott's Row, St. George's Road, S.E.

£50.—Pretty little Shop; mahogany Fittings, Drawers, etc., quite new; suit qualified; shop in good position, near market; a good opportunity; no qualified opposition. "T.", 22 Deacon Street, Swindon.



## AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

**ADVERTISER**, having ample warehouse accommodation, office and telephone facilities, personally working Liverpool and districts and North Wales, is prepared to undertake Sole Agency for these districts upon advantageous terms. Apply, 83/20, Office of this Paper.

**IMPORTANT TO LONDON AND SCOTCH FIRMS  
REQUIRING REPRESENTATION IN THE MID-  
LANDS TO COVER GROUND PREVIOUSLY  
WORKED BY TRAVELLERS.**

**MANCHESTER** distributing house is open to accept one or more additional Sole Agencies. Clientèle Wholesale and Retail, Chemists, Doctors, and public. Such Agencies would receive benefit of existing facilities and machinery; Wholesale warehouse, showroom, circular-letter campaign department, and services of efficient representatives. Apply, 169/48, Office of this Paper.

**SOAP** and Perfume house require Representatives who are already working home grounds to carry samples on basis of commission with contribution towards expenses; only first-rate men will be considered by advertisers, who are house of high repute. Full particulars, in strict confidence. Apply, 169/480, Office of this Paper.

## BUSINESSES WANTED.

**WANTED**, small Cash Drug Stores in London or suburbs. State full particulars, "Drugs" (84/32), Office of this Paper.

## APPRENTICESHIPS.

**A CHEMIST** desires to Apprentice his son to a good Dispensing Chemist; country preferred. Address, W. S. Wardle, Chemist, 290 Brixton Road, London, S.W.

## PARTNERSHIPS.

**GENTLEMAN**, above military age, with long experience in the Wholesale, is desirous of obtaining a Partnership in a well-established business, or would consider purchase of small, bona-fide concern; alternatively would entertain responsible position in Wholesale house, London or provinces. Address Z. C. 893, Deacon's, Leadenhall Street, E.C.

**PARTNER**.—Junior Partner required in a prosperous Retail concern; business ability is of essential while the amount of capital is of quite secondary importance. Apply in writing to William Shadforth, Fh.Ch., 63 Grove Road, Bow, London, E.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

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## RETAIL.

**ALDERSHOT**.—Williams & Litchfield, Chemists, require a Second Assistant. Address as above, with full particulars and salary required (outdoors).

**ALTRINCHAM PROVIDENT DISPENSARY AND HOSPITAL**.—Wanted, qualified Dispenser (male or female); salary £105 per annum. For duties, etc., apply Wm. Moody, Secretary, Market Street, Altrincham, with copies of recent testimonials.

**BEDFORD**.—Lady Assistant or unqualified Junior wanted at once for Light Retail business, Counter, Window-dressing, and Stock; short hours; good salary (outdoors). State age, experience, and salary required, and give reference, Anthony & Son, Chemists, High Street, Bedford.

**BERKHAMSTED**.—Wanted, young lady Assistant (outdoors) for Dispensing and Light Retail; or gentleman (ineligible for service). Apply, with full particulars, to Gibbs, Chemist.

**BIRMINGHAM**.—Dispenser, lady or gentleman; Light Retail and N.H.I. work; outdoors. State age, salary expected, when disengaged, and usual particulars, Raynes Dispensing Chemists, 28 Bath Row, Birmingham.

**BIRMINGHAM**.—Assistant, unqualified; accurate Dispenser and obliging at Counter; good salary and hours. Apply, with full particulars, General Manager, Hodges (Chemists), Ltd., Dale End.

**BLACKPOOL**.—Manager wanted for old-established Pharmacy; salary and percentage of profits with future interest to capable man. All particulars to John Potter, F.S.A.A., 34 Birley Street, Blackpool.

**BRADFORD**.—Wanted, unqualified Assistant; lady not objected to, or Locum; Mixed business and N.H.I. Apply, 81/8, Office of this Paper.

**BRISTOL**.—Wanted, a competent Assistant, lady or gentleman (outdoors), for good Dispensing business. Apply, with usual particulars, Buxton & Grant, 176 Whiteladies Road, Bristol.

**BYFLEET**.—Dispensing Assistant (lady or gentleman) of good experience required for high-class Dispensing business; very few N.H.I.; easy hours; outdoor berth. State all particulars in first letter, S. Browning Moss, West Byfleet.

**CAMBRIDGE**.—Lady or ineligible man Assistant; previous business experience not necessary; outdoors; no Sunday or holiday duty; early closing. Apply, Mr. David Sturton, c/o R. Sturton & Son, Pharmacists, 7 Fitzroy Street, Cambridge.

**CHELTENHAM**.—Competent Assistant required for Dispensing business; outdoors. Full particulars to Nathl. Smith & Co., 373 High Street, Cheltenham.

**CHEPSTOW**.—Ineligible Assistant for Light Retail and Dispensing; outdoors; easy hours; no Sunday duty; with Optical experience preferred. Full particulars to Clarke, Chemist, Chepstow.


**COVENTRY AND WARWICKSHIRE HOSPITAL, COVENTRY.**

**DISPENSER** (lady or gentleman) wanted, holding M.P.S. or L.P.S. qualification; duties to commence early in February. The candidate appointed will be required to live out; lunch and tea will be provided by the hospital on week-days. Applications, stating age, experience, qualifications, and salary required, and enclosing copies of recent testimonials, to be sent in, addressed to the Secretary, on or before Saturday, 20th January, 1917.

### RESULTS

OF ADVERTISING IN THIS SUPPLEMENT  
LAST WEEK DEC 30 1916

NATURE OF ADVT.	REPLIES
DISPENSER	12
ASSISTANT	11
MANAGER	11
QUAL. ASSISTANT	9
MANAGER	8



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de pume.



**DARLINGTON.**—Lady Assistant required; qualified preferred, but not essential; other female Assistants kept. App'ly, Waters, Chemist, Darlington.

**EALING.**—Junior or Improver (ineligible Army and Navy); outdoors; quick Retail and Dispensing. H. Cook, 174 Uxbridge Road, Ealing, W.

**FOLKESTONE.**—Assistant, ineligible, outdoors, for high-class Light Retail and Dispensing business; easy hours; good salary offered to a capable man. Photo and usual particulars to Messrs. Ransford & Cunningham, 36 Sandgate Road, Folkestone.

**GRAVESEND.**—Qualified Manager required for Branch business: good salary for suitable man; also competent Assistant for main business, lady or gentleman. Apply, with full particulars, salary required, experience, etc., to T. Johns, Chemist, 73 High Street, Gravesend.

**HULL.**—Wanted, Assistant (outdoors), with Dispensing experience; permanent. State particulars and salary required to C. H. Kirton, Pharmaceutical Chemist, 53 Savile Street, Hull.

**LEICESTER.**—Junior Assistant, lady or gentleman; competent assist Dispensing and Galenicals; excellent experience obtained. Apply, with full particulars, experience, references, and salary, to F. W. Goodess, Pharmacist, 25 Market Street, Leicester.

**LONDON.**—Lady Assistant, or gentleman ineligible for military service, with Dispensing experience. Apply, giving full particulars as to age, experience, and salary required (outdoors), Greenish, 20 New Street, Dorset Square, N.W.

**LONDON.**—Wanted immediately, active Assistant for Counter and Stockkeeping, used to high-class Store trade; must have good references; hours 8.30 to 6, Saturday 1 o'clock. 88/32. Office of this Paper.

**LONDON District.**—Wanted, Assistant, lady or ineligible; outdoors; good salary. Write particulars, 89/5, Office of this Paper.

**LONDON, N.**—Assistant required for Thursday, Friday, and Saturday evenings for Dispensing, assist at Counter, etc. Apply, personally or by letter, to Pirie, Chemist, 4 Grand Parade, Harringay.

**LONDON, N.**—Qualified male Assistant, accustomed to Counter; no N.H.I.; hours 9 to 8, one hour off for dinner and the same for tea; weekly half-holiday; one hour's duty every other Sunday night; salary £5 10s. a week; state age, height, and experience; personal interview required. "Enfield" (84/35). Office of this Paper.

**LONDON, S.E.**—Wanted, an Assistant, unqualified; Extractor preferred, and good knowledge of Photography trade; outdoors. Apply, Winton's Drug Co., Ltd., 66 High Street, South Norwood, S.E.

**LONDON, S.E.**—Dispenser required by Chemist (outdoors), with knowledge of Counter work preferred; short hours. Applicants please state usual particulars and salary required to 86/13, Office of this Paper.

**LONDON, S.E.**—Wanted, by January 29, for Dispensing and good-class Retail business, competent Assistant ineligible for military service. Apply, with full particulars, salary required, etc., to H. W. Nethercoat, 60 Denmark Hill, London, S.E.

**LONDON, S.E.**—Competent Assistant, ineligible for military service, wanted as soon as possible; qualified preferred, but not essential; experienced in N.H.I. and Counter work; highest references; liberal terms. Apply, with fullest particulars, "Alem-broth" (88/31). Office of this Paper.

**LONDON, S.W.**—Wanted at once, an Assistant who has had good Dispensing experience. Apply to A. J. Phillips, 156 Cromwell Road, South Kensington, S.W.

**LONDON, S.W.**—Required, Assistants for the Front Counter in large London Retail establishment, situated in West End; male or female of good appearance and address. Write, stating full particulars of past experience and salary required, to L. J. 1335, Sell's Advertising Offices, Fleet Street, E.C.

**LONDON, S.W.**—Assistant wanted, with good all-round experience, not eligible for the Army. Please state age, experience, references, salary required, and when disengaged (outdoors), to "P. C. A.," 189 Wandsworth Road, S.W.

**LONDON, S.W.**—Wanted, smart Assistant for the Patents and Drug Counter; short hours; no Sunday duty. Personal application preferred, or full particulars to Manager, Drug Department, Francis & Son, 448 Brixton Road, S.W.

**LONDON, W.C.**—Assistant wanted, accustomed to good-class Retail and Dispensing; qualified preferred; outdoors. Burden & Co., 41 Store Street, Bedford Square.

**MARGATE.**—Assistant for good-class Retail and Dispensing; permanency if suitable. Apply, stating previous experience, age, height, salary required (outdoors), to D. T. Evans, Farningham Lodge, Margate.

**NEATH.**—Junior Assistant: easy hours; good salary to suitable man. Hibbert & Son, Chemists, Neath.

**NEWCASTLE-ON-TYNE.**—Unqualified Assistant wanted (ineligible for Army, or one who has served). State age, reference, and salary, Taylor Gibson & Co., 17 Bigg Market, Newcastle-on-Tyne.

**NORTH STAFFS.**—Wanted, ineligible, competent, and energetic Assistant, accustomed to N.H.I. Dispensing and brisk Retail business; outdoors; moderate hours. Give experience, age, salary required, reason for exemption and when disengaged, Clement Wain, Pharmaceutical Chemist, Newcastle, Staffs.

**ORMSKIRK.** near Liverpool.—Wanted immediately, smart gentleman or lady Assistant; unqualified; outdoors; good salary. Apply to Garside's, Ltd., Dispensing Chemists, Ormskirk.

**SHREWSBURY.**—Assistant (outdoors); lady with good knowledge of Dispensing would suit; short hours; no Sunday work. Please give full particulars of experience and salary required in first letter. Apply, A. Williams, Chemist, Castle Street, Shrewsbury.

**SOUTH OF ENGLAND.**—Assistant required; free removal; permanency, with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

**SOUTH WALES.**—Smart qualified Manager required for business situate not far from Cardiff; must be a capable Dispenser and good Counterman; good salary and interest in the profits offered to suitable man. "S. W." (86/6), Office of this Paper.

**SURREY.**—Qualified Manager required at once for Branch business, Light Retail and Dispensing, either lady or gentleman (ineligible for Army service); good house if required; easy hours; permanency; also competent Assistant for main business, lady or gentleman. Apply, with full particulars, salary required, experience, etc., D. Macrae, Pharmacist, Redhill.

**WESTCLIFF-ON-SEA.**—Competent Assistant, qualified or unqualified (ineligible for military service), for Dispensing and Light Retail; congenial and progressive position; in- or outdoors. State full particulars first letter, salary required, and enclose recent photo, Body, Westwood.

**WORCESTER.**—Competent Assistant required for good-class Retail and Dispensing business, with fair amount of National Insurance work; qualification not essential. State age, experience, salary required, references, etc., to Anderson & Virgo, Chemists, Worcester.

**WORTHING.**—Assistant wanted, good Dispenser. Send particulars, with references, to W. Aston, Pharmaceutical Chemist, 6 Burlington Terrace, Worthing.

**YORKSHIRE.**—Young lady who has had experience at the Counter, and some Dispensing, required for a quick Cash business in colliery district; comfortable and permanent berth. "Yorks" (81/211), Office of this Paper.

**YORKSHIRE District.**—Manager, qualified, wanted; exempt from Army; Light Retail and N.H.I. Dispensing; very comfortable permanent berth to a first-class man; first-class recent references essential. Apply, with full particulars, stating salary, etc., to "Statim" (85/11), Office of this Paper.

**A.**—Wanted, a smart, reliable qualified man (outdoors) in good-class North London suburb; excellent salary to suitable man. "A. A. A." (72/39), Office of this Paper.

**ASSISTANT;** Surgical Instrument business; competent man of good character for front shop. Address, stating age, duties accustomed to, and wages expected, 70/11, Office of this Paper.

**ASSISTANT** for one of Thompson & Capper's Yorkshire Branches. Apply, giving particulars of previous experience and enclosing photo if possible, to Thompson & Capper, Manesty Buildings, College Lane, Liverpool.

**ASSISTANT** (ineligible for Army) for good-class Retail and N.H.I. Dispensing; easy hours. State salary (outdoors) and usual particulars to Golightly, Pharmacist, Pudsey, near Leeds.

**ASSISTANT,** with either Wet or Dry Counter experience. Apply, with usual particulars, to Hedges (Chemists), Ltd., Birmingham.

**ASSISTANT** in good-class business, mainly for Dispensing. Send full particulars in application, A. Milne, Fairlands, Leckhampton, Cheltenham.

**ASSISTANT** wanted, able to Dispense and General Retail. Apply, stating experience, etc., Barron, Chemist, 77 High Street, Croydon.



**A**T Once.—Lady Assistant with knowledge of Dispensing and Chemist's Retail; outdoors or indoors; easy hours. Full particulars as to age, height, salary required, and when disengaged, etc., to Hampton, Chemist, 86 Northgate Street, Gloucester.

**C**APABLE Assistant required. Apply, stating full particulars, to L. T. Underwood, Blake, Sandford & Blake, 49, Dover Street, Piccadilly, W.

**C**OMPETENT Managing Assistant wanted for highest-class Pharmacy and Hairdressing Saloons; to take position of trust. Write fully, E. B. Kendall & Son, 6 Coney Street, York.

**D**ISPENSER wanted immediately; outdoors; one accustomed to good-class business. Apply by letter to John Atkins, Chemist, 109 Queen's Road, Bayswater, W.

**D**ISPENSER required in large West-End Retail establishment; hours of work approximately 8.45 to 6 o'clock, Saturday 1 o'clock; no Sunday duty. Write, stating full particulars of past experience and salary required, to L. J. 1336, Sells' Advertising Offices, Fleet Street, E.C.

**E**LDERLY qualified Chemist or lady required to assist another in small business; comfortable home (indoors); plenty of time off. Apply, stating salary required and full particulars as to experience, "Geek" (72/33), Office of this Paper.

**F**RANK A. ROGERS, 327 Oxford Street, W., has a vacancy for qualified Assistant, lady or gentleman. Please give full particulars of experience, salary required, etc.

**J**UNIOR Assistant; outdoors; ineligible; or lady applicant would suit if able to Dispense and willing to gain experience in Retail; good-class business; hours 8.30 to 8, alternate evening duty after closing until 9.30; light Sunday duty. State usual particulars and salary required, J. W. Feltwell, 91 Hammersmith Road, West Kensington.

**L**ADY or gentleman Pharmacist required, to Manage small Branch, small N.H.I.; hours 8-6, Thursday 12, Friday and Saturday 8 p.m. Apply, with full particulars, to the Secretary, Doncaster Mutual Co-operative and Industrial Society, Ltd., 1 John Street, Doncaster.

**L**ADY wanted, to take charge of Stock, one capable of Packing Proprietary Articles. Apply by letter, to John Atkins, Dispensing Chemist, 109 Queen's Road, Bayswater, W.

**L**ADY Dispenser, accustomed to first-class work, required for position in West End. Apply, Lewis & Burrows, Ltd., 146 Holborn Bars, E.C.

**L**ADY Assistant; must be a good Dispenser and have had some Counter experience; high-class business, situate at a Midland health resort; comfortable permanency. 81/210, Office of this Paper.

**L**ADY Dispenser and Bookkeeper wanted; Northern County; preference given to trained Nurse. Address, stating salary required, to 86/16, Office of this Paper.

**L**ADY Assistant wanted; good Dispenser. State age, salary required, and when disengaged, "Suffolk" (85/5), Office of this Paper.

**M**ANAGER, qualified; also an Assistant, qualification not essential; please state salary required, in- or out-doors. Apply to "X. Y. Z." (83/22), Office of this Paper.

**M**ANAGER required for Country Branch; qualified; either lady or gentleman; comfortable and permanent post. Please give full particulars in first letter to Campbell Falconer, Walmgate, York.

**M**ANAGER, qualified, required for small Retail, West London, to release present owner for military duties; suit elderly man; easy berth; arrangements could be made for ultimate purchase if desired; live on or off premises; good remuneration to right man; absolute reliability essential. Write at once, "Nomen" (86/7), Office of this Paper.

**M**ESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

**P**ART-TIME Assistant wanted, two or three days or half-days a week. Burden & Co., 41 Store Street, Bedford Square, W.C.

**P**RESCRIPTION Pricing Office require Chief Pricer, male or female, with practical Dispensing experience; must have initiative and be good disciplinarian; salary £104; state fully experience, qualifications (if any), age, and when at liberty. Apply, 85/26, Office of this Paper.

**Q**UALIFIED Assistant required, used to first-class business, for Dispensing duties only; hours 8 to 6; no Sunday duty; permanency; good prospects. State age, commencing salary required, and particulars of present engagement, to Junior Army & Navy Stores, Ltd., Union Street, Aldershot.

**Q**UALIFIED Assistant (ineligible for Army), used to N.H.I. Dispensing. State full particulars, with references, to Audsley, Hôrbury, Wakefield.

**Q**UALIFIED Chemist for Dispensing, Agricultural, and all-round country business; must be ineligible; state terms and references. Apply, A. E. Churchyard, Harleston, Norfolk.

**Q**UALIFIED man required to Manage small lock-up shop; good medium-class trade. Apply, F. C. Dawkins, 10 North Pole Road, North Kensington, W.

**Q**UALIFIED Manager, married or single, lady or gentleman, resident or non-resident, for high-class suburban business, at once; state salary and experience. Apply, Chemist-Optician, 76 High Street, Wimbledon.

**Q**UALIFIED Assistant for Dispensing and Light Retail business. Courtenay, 3 High Street, St. John's Wood, N.W.

**R.** H. TOOTILL, Pharmaceutical Chemist, Altrincham, requires an unqualified Assistant of either sex; must be experienced in both Dispensing and Counter. State full particulars and salary required.

**R**EQUIRED soon, by London firm, two Assistants (one qualified Managing); reasonable salaries for permanency plus commission; outdoors. Apply, giving full particulars, "West Central" (85/15), Office of this Paper.

**S**MART qualified or unqualified Chemist (ineligible) wanted as Manager; permanency. State age, experience, and salary required to Secretary, W. B. Taylor, Ltd., South Road, Bishop Auckland.

**T**HOROUGHLY competent Assistant, over military age; West-End Dispensing experience; London or suburbs; used Management; outdoors. "B." 4 The Parade, Sudbury, Harrow, N.W.

**U**NQUALIFIED Assistant; ineligible or above military age; must have had good Photographic experience; progressive berth; Midland city; permanency. "Photo" (81/21), Office of this Paper.

**U**NQUALIFIED Assistant; one able to take charge if required. Apply, by letter, "G. B.," 77 Walworth Road, London, S.E.

**W**ANTED. Chemist, Pharmaceutical qualification, not liable for military service, for the Medical Department, Royal Arsenal, Woolwich. For particulars apply personally, between the hours of 9 and 10 a.m., 12 noon and 1 p.m., or in writing for an appointment, to Senior Medical Officer, Royal Arsenal, Woolwich.

**W**ANTED immediately, part-time lady Assistant. Apply, Atkins, 30 Highbury Park, Islington.

**W**ANTED, reliable Assistant; outdoors; easy hours; lady or gentleman; good Dispensing experience essential. Holt, Green & Co., 8, Kensington Station, S.W.

**W**ANTED, experienced Assistant; outdoors; ineligible; good Counter hand and accurate Dispenser; hours 9 to 8, Thursday 1 p.m., Saturday 9 p.m.; no Sunday or Bank Holiday duty; good salary given. Apply, stating age, references, when at liberty, and salary required, to W. H. Walker, Chemist, Willenhall, Staffs.

**W**ANTED, a lady Dispenser for good-class Chemist's shop. State terms and experience, 85/500, Office of this Paper.

**W**ANTED at once, temporary Assistant for Dispensing Counter; very little N.H.I. work; qualified or unqualified; must be competent and accurate. State terms and full particulars to 85/17, Office of this Paper.

**W**ANTED, qualified Assistant, male or female, ineligible for the Army; whole day off a week; occasional Sunday evening duty. Apply, Wm. Fox & Sons, Ltd., 109/113 Bethnal Green Road, N.E.

**W**ANTED, male or female unqualified Counter Assistant, ineligible for the Army; good salary. Apply, Wm. Fox & Sons, Ltd., 109/113 Bethnal Green Road, N.E.

**W**ANTED, by a Midland Pharmacy, fully-qualified Assistant; preference would be given to a married middle-aged man; house provided. Apply, with full particulars, copy of testimonials, to "Chemicus" (84/30), Office of this Paper.

**W**ANTED, qualified Manager, above military age or ineligible hours 8.30 to 7; easy crib; half-holiday weekly; please state age, salary required (outdoors); wanted about January 15. 88/11, Office of this Paper.

**W**ANTED at once, Assistant with Minor qualifications, male or female, used to Counter work; short hours and no Sunday duty. Apply, Staff Superintendent, C.S.S.A., Ltd., 136 Queen Victoria Street, E.C.



**W**ANTED immediately, qualified Manager, lady or gentleman, death vacancy. Call or write, Mackay, 193 The Broadway, West Hendon, N.W.

## WHOLESALE.

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**A** GOOD opening occurs in Manufacturing Department of Midland business, with practical knowledge of Drug trade; good references required; state experience and age. Apply, 176/18, Office of this Paper.

**A** LLEN & HANBURY, LTD., Bethnal Green, E., require an intelligent young man or young woman for their Order Department; must be able to read readily varied Drug orders and be a quick and accurate worker. Applications, in own handwriting, stating age, experience, and salary required, to "F. L. D." (174/64), Office of this Paper.

**A** SSISTANT (lady or gentleman), unqualified, not over 30, required for Chemist's Wholesale Department; one who has had some Retail experience preferred. Apply, stating usual particulars as to age, experience, salary, when disengaged, etc., to T. & W. Woodruff, Chemists, Cheadle, Cheshire.

**D** RY Counter hand wanted; permanency for suitable man. Apply, stating age, experience, and wages required, Secretary, General Apothecaries' Co., 49 Berners Street, W.

**D** RY ROOM.—Wanted, capable man for Dry Department; ineligible; good references. Please give details of experience in first letter, also salary required, R. A. Cripps & Son, Manufacturing Pharmacists, Hove, Brighton.

**H** EAD Laboratory Assistant required at once (permanency) by an old established Drug house; experienced in the Manufacture of B.P. preparations, Ointments, etc.; state experience and wages required. Apply, 84/6, Office of this Paper.

**I** NVOICE Clerk required, with some experience, either sex (male must be ineligible for military service). Apply, in confidence, giving full particulars, and state salary required, to James L. Hatrick & Co., 70 St. John Street, E.C.

**L** ABORATORY.—Wanted, experienced man for Stills and Pans; ineligible. Potter & Clarke, Ltd., Artillery Lane, E.

**P** ERFUMES and Toilet Preparations.—Thoroughly good Forewoman required, to take the lead and supervise a small staff of girls; good prospects. Please state age, experience, wages expected, when disengaged, etc., to 173/730, Office of this Paper.

**Q** UALIFIED Manager wanted for Wholesale Manufacturing business in Midlands; must be good Buyer and used to control staff; excellent prospects to energetic man: state full particulars, salary required, etc., in first letter. Apply, 85/16, Office of this Paper.

**R** EPRESENTATIVE wanted by London firm for Chemists' Sundries, etc. Apply, 84/37, Office of this Paper.

**S** AVORY & MOORE require a man accustomed to making Lozenges and Effervescent Salines. Apply, stating experience, age, and wages required, to Manager, 143 New Bond Street, W.

**S** AVORY & MOORE require a Laboratory hand; also a Wet Counter hand. Apply, stating experience, age, and wages required, to Manager, 143 New Bond Street, W.

**S** MART young Pharmacist, medically unfit or one over military age, with past experience, required in Advertising Department of large Manufacturing house. Apply, with full particulars, stating salary, to 170/43, Office of this Paper.

**S** MART London Traveller, with good connections (lady or gentleman), required to represent new line of Ladies' Toilet Articles. Address, "Dainty" (77/8), Office of this Paper.

**T** INCTURE Maker required (permanency) by a firm of Wholesale Manufacturing Chemists; also Assistant (male or female) for Warehouse, accustomed to the despatch of Orders, etc. State experience and wages, Gale & Co., Ltd., 15 Bouverie Street, E.C.

**T** OILET Preparations.—Wanted man (ineligible) to take control of small Manufacturing Department; must be experienced in Shampoo Lotions, Essential Oils, Face-creams, Pomades, etc. State age, salary required, and qualifications. Apply, 171/60, Office of this Paper.

**T** RAVELLERS required for a new British-made Eau de Cologne. Apply, giving references and districts, to "X. Y. Z." (84/5), Office of this Paper.

**W** ET Counterman required in provinces; comfortable permanency; free removal. State age, experience, and usual information, 85/40, Office of this Paper.

**W** ET Floor Assistants wanted at once. Apply to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

## SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

**3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.** The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

**S** OUTH AFRICA.—A good Representative required by London firm manufacturing Druggists' Sundries, Perfumes, and similar articles; live connection to be taken over; salary and commission basis; applicants to give full particulars of experience, age, etc., in the first instance to save time. Apply, 173/73, Office of this Paper.

## SITUATIONS WANTED.

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The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

## [HOME.] RETAIL.

**A.** H. COOPER, M.P.S., 5 The Vineyards, Bath.—Open for temporary engagements.

**A** CTIVE, reliable Locum; disengaged two or three days weekly; abstainer; unregistered; references. "Elderly," 19 Chapel Street, Uxbridge.

**A** DVERTISER, discharged, well educated, 12 years' experience Retail (Photo, Dispensing), desires berth; capable Manager; present Representing firm of Druggists; North preferred; married. 86/8, Office of this Paper.

**A** SSISTANT; unqualified; over military age; many years' all-round London experience; permanency and S.W. London preferred. "Statim," 72 Tremadoc Road, Clapham, S.W.

**A** SSISTANT; capable of Managing; unqualified; age 45; country preferred; good references; all-round experience; active. 84/26, Office of this Paper.

**A** SSISTANT or Branch; 51; abstainer; experienced; disengaged. Particulars to "J. S.," 159 Linthorpe Road, Middlesbrough.

**A** SSISTANT, Locum; disengaged; ineligible; desires post immediately. "Tenex," 43 High Street, Southampton.

**B** EGINNER, well-educated lady (taking theoretical course), desires situation where she may gain practical experience; outdoors. 68 Burford Gardens, Palmers Green.

**B** ELGIAN Chemist, with some English experience; elderly; good reference; low salary; in London. E. Houthoof, 56 Camberwell Green, S.E.

**C** ROYDON, Tunbridge Wells, or District.—Lady; 19; one year's experience, Retail and Dispensing; part-time engagement; good reference. Robbins, The Rosery, Limsfield.

**D** ISENGAGED shortly; Locum, permanency; reliable, active, experienced; good references; reasonable terms. 88/18, Office of this Paper.

**D** ISPENSER (woman); qualified; now disengaged; Bandaging.—Address "B.," 98 Fillebrook Road, Leytonstone.

**D** ISPENSER; 43; disengaged mornings up to 11.30 and from 6 p.m.; West-End district only. 85/34, Office of this Paper.

**E** LDERLY Pharmacist, active, wants position near Manchester. Cleary, 43 Orient Street, Cheetham, Manchester.



**L**ADY Dispenser, experienced, Hall qualification, desires post in London; Hospital or Institution preferred. Apply, 81/10, Office of this Paper.

**L**ADY Dispenser wants experience with Doctor or high-class Chemist; six months' training. Apply, "R." (79/2), Office of this Paper.

**L**ADY Dispenser, qualified (Hall), first-class experience, testimonials, seeks post, Doctor or Institution. Apply, 76/14, Office of this Paper.

**L**ADY Dispenser (Hall), young, desires post to gain experience; small remuneration. Address, 75/3, Office of this Paper.

**L**ADY Dispenser (half Hall) desires experience in Dispensing in Hospital or first-class Pharmacy. "Bucks" (72/36), Office of this Paper.

**L**ADY Dispenser, with several years' Hospital and Doctor's experience; whole or part time; first-class references. Apply, "J. H. S.," 100 Victoria Street, S.W.

**L**ADY Dispenser; Hall qualification; 8 months' Hospital experience; Doctor or Institution preferred. K. Marsland, 70 Grove Park, Denmark Hill.

**L**ADY (part Hall exam.) desires work with Doctor or Medical Mission; London or suburbs. Miss J. Field, 28 Stretton Road, Croydon.

**L**ADY (Minor) desires post; first-class Chemist or Institution; well trained. Apply, 86/12, Office of this Paper.

**L**ADY seeks Dispensing three days per week and evenings. Henley, 7 Palatine Buildings, Brooks's Bar, Manchester.

**L**OCUM or Manager; qualified; over military age; abstainer; disengaged; please state terms. 72/24, Office of this Paper.

**M**ANAGER or Locum; qualified; London or provinces; disengaged. "Brockedon" (74/8), Office of this Paper.

**M**ANAGER; qualified; 48; experienced working and middle class business; present berth five years; country preferred. A. H. Swift, 78 Cheltenham Street, Swindon.

**M**ANAGER; qualified; exempt; 36; London and Continental experience; City, West End, or Western suburb preferred. "Chemist," 22 Blandford Road, Bedford Park, W.

**M**ANAGER; capable Counterman, Prescriber, and Window-dresser; successful in increasing returns; part time or succession entertained; highest references; London preferred; unqualified. "H. J." (84/27), Office of this Paper.

**M**ANAGER; qualified; single; 43; disengaged; all-round experience. "Pharmacist," 9 Grantham Street, N.

**M**ANAGERSHIP or position of trust required; Brighton or country preferred; qualified; 45; married; permanency. "Len," 28 Taunton Road, Lee, London, S.E.

**P**HARMACIST, ineligible (36), married, 13 years' Colonial experience, seeks re-engagement, tropical or sub-tropical country. 83/16, Office of this Paper.

**P**HARMACIST; qualified; beyond military age; Counter work; London. "Tangent" (85/25), Office of this Paper.

**P**HARMACIST requires appointment as Manager of light business; elderly; active and reliable; town and country experience. Terms and details to "Qualified," 129 East Dulwich Grove, London, S.E.

**Q**UALIFIED Chemist wants easy berth after illness; quite well now. "W.," 16 St. Michael's Hill, Bristol.

**Q**UALIFIED; 39; married; exempt; Counter, Dispensing; disengaged. Stewart, 3 Elborough Street, Southfields, S.W.

**Q**UALIFIED (23) requires part-time berth; S.W. district preferred. 12 Stockwell Park Road, S.W.

**Q**UALIFIED; experienced; disengaged shortly; good references; Optician. Apply, 85/10, Office of this Paper.

**Q**UALIFIED; ineligible; moderate hours and salary; disengaged. "Chemist," Holmeleigh, South Hill Avenue, South Harrow.

**Q**UALIFIED seeks post; Brighton preferred. Ellinor, Clayworth, Retford.

**Q**UALIFIED; Senior, Manager; ineligible; active, experienced. Bromley House, Higher Bank Road, Fulwood, Preston.

**Q**UALIFIED; 39; complete knowledge all branches; disengaged when required. Please state fullest details first letter, "Immediate," 42 Conference Road, Armley, Leeds.

**Q**UALIFIED; as Manager; first-class London experience; over military age. Apply, 185/4, Office of this Paper.

**R**ELIABLE Dispensing and Counter Assistant; unqualified; 29; tall; single; rejected; good Salesman; can take charge when required; references; 55s.-60s.; free. 84/23, Office of this Paper.

**S**ITUATION required as Forewoman or Counter hand to Retail Chemist. Margaret Williams, 37 Burgoyne Road, Harringay, N.

**S**TUDENT (rejected) requires engagement for Saturday morning and one other; good Dispensing experience. 327 Brixton Road, S.W.

**S**UNDAYS, and Thursdays after 3 p.m.; competent, qualified Pharmacist offers services; Store, private, or Dispensing. Offers, stating remuneration, to Tildesley. 234 Westbourne Grove, W.

**T**EMPORARY or Locum; qualified; thoroughly experienced; abstainer; reasonable terms; disengaged. "London" (88/34), Office of this Paper.

**T**O Manage small Branch; good experience; Extractor; London district preferred; over military age; unmarried. Turner, 56 Lyndhurst Drive, Leyton, N.E.

**U**NQUALIFIED Manager seeks post where energy and ability will be rewarded; good references; disengaged February 3; good business builder. "Amyli" (72/31), Office of this Paper.

**U**NQUALIFIED; 22; rejected; capable; good experience; please state particulars. 83/34, Office of this Paper.

**U**NQUALIFIED; 29; rejected; married; competent; Dispensing, Counter, etc.; capable taking charge; country town preferred; disengaged January 8. Reply to "Abstainer" (85/35), Office of this Paper.

**U**NQUALIFIED, 25, ineligible, 10 years' all-round experience, Photo, Optics, and Surgical Mechanics, seeks progressive and permanent situation; Wholesale or Retail. 85/7, Office of this Paper.

**U**NQUALIFIED; exempt; thoroughly experienced; Dispenser or Counter; City or W.C. preferred; disengaged middle January. "T. L." (84/39), Office of this Paper.

**U**NQUALIFIED Manager or Assistant; married, no family; over military age; steady, reliable, energetic; Extractor, Photographer; disengaged. "Scott," 523 King's Road, Chelsea, S.W.

**U**NQUALIFIED; part-time berth in North London; exempt from military service. 88/17, Office of this Paper.

**Y**OUNG lady, experienced in General Retail, Photographic, desires position as Counter Assistant with Chemist or leading firm; Leeds district preferred. Apply, 83/9, Office of this Paper.

## WHOLESALE.

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**A**DVERTISER (ineligible) seeks position in Wholesale; Retail and Travelling experience. "Linguist" (88/30), Office of this Paper.

**D**EPARTMENT Manager or responsible position; experienced Factory, Wholesale; control staff; enterprising; ineligible. Apply, 88/16, Office of this Paper.

**G**ENTLEMAN, Manager of Chemical Works, with full control of plant, employees, office staff, travellers, and large connection with Chemists at home and abroad, requires permanent position. Box H., The J. Fortin Advertising Agency, 231/2 Strand, W.C.

**R**EPRESENTATIVE, 10 years with a first-class London house, is now disengaged; large and old-established connection amongst the best Chemists in the principal towns in England; highest references; over military age. Address, 77/13, Office of this Paper.



**T**HOROUGHLY practical man; 47; qualified; exceptional London Wholesale and Manufacturing experience, preceded by sound training in retail firm; shortly disengaged; remuneration £208. "Menthol" (84/31), Office of this Paper.

**T**RAVELLER, age 45, qualified Chemist, requires re-engagement; many years' experience of road and connection; good selling record and first-class references; now disengaged. "Papav" (85/30), Office of this Paper.

**T**RAVELLER (46) desires shortly re-engagement; a few good commissions would be entertained. Apply, 88/030, Office of this Paper.

## MISCELLANEOUS.

**75,000** Cartons  $4\frac{1}{2} \times 3 \times 1\frac{1}{2}$ , good quality, White Enamel surface board; price 27s. 1,000; immediate delivery; samples on application. Santo & Co., 4 & 5 Stonecutter Street, London, E.C.

**C**OPPER Pans, 2 3-gall., 25s. each, 1 5-gall. 30s., 1 6-gall. 32s., all fitted with handles; also 1 steam-jacketed copper throughout, 18 gall., revolving on stand, £5; all in perfect condition. Bandages, Lisle, 1,200 2-in., perfect condition, 1s. per doz. Canada Balsam, pure, 40 lb., 1s. 3d. per lb. Leslies, Ltd., 18 Eldon Street, London, E.C.

**S**HOP FITTINGS (SECOND-HAND), Suitable for Large Pharmacy, or can be adapted as required.—16 ft. Plate-glass Wall-case; 16 ft. Handsome Fixture with Glass-labelled Drawers, Mahogany cupboards, etc.; 12 ft. Plate-glass Fronted Counter with Label Drawers, etc.; 7 ft. Handsome Dispensing Screen; Silent Salesman Case; 6 ft. Bent Plate-glass Counter Case; Desk and Perfume Case; £135 the lot; sketches on application; or would divide. PHILIP JOSEPHS & SONS, 93 Old Street, London, E.C.

**S**ECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

**M**CQUEEN'S System of Accounts works out profit and loss account, balance sheet, and income-tax return with guaranteed certainty; prepare for even bigger war tax and over-assessment by using this "Accountant on your Desk"; simple as ABC. Full particulars and testimonials, free, McQueen & Co., Moat Road W., Leicester.

**Out-of-date Cameras bought.**  
Chemists often take in exchange an old Camera as part payment for a new one, or have same left on their shelves. We buy these on Cash Terms. Try us.

WATSONS, 84 High St., SHEFFIELD.

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The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

### TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

### WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

### THE WAR WANTS EXCHANGE.

"The Chemist and Druggist," 42 Cannon Street, London, E.C.

Adalin tablets (86/11)	Naftalan (86/11)
Chloralamid (84/36)	Phenacetin tablets, 5 grains (86/11)
Cycloform (86/11)	Sodium sozoiodol (86/11)
Eugallol (86/11)	Trional (84/36)
Gelineau's dragees (86/11)	Ung. cycloform co. (86/11)
Gelinaeol carb. (83/19)	Zinc sozoiodol (86/11)
Iodoglidine tablets (86/11)	

## TO WHOLESALE CHEMISTS, SHIPPERS, etc.

We compress tablets from your own ingredients or otherwise, plain or coated. Large quantities dealt with quickly. Superior Machinery and Scientific Control.

Lowest quotations for Cascara tablets in bulk.

**R. GIBBINS & CO.,** 1 Birkbeck Road, Kingsland, LONDON, N.E.

8/6	Jay Mack's Ledger	10/6
3 Years 4 Columns	gives Yearly Sales, Purchases, Etc., with only 10 mins. work weekly; Easy Stocktaking explained; Form Pages show Balance Sheets and Income Tax deductions; no previous Book-keeping experience needed.	4 Years 5 Columns
On appo. on receipt of cheque. 6d. Booking Fee if returned.		
Mack-Ivor, Hightown P.O., Crewe.	See it for yourself.	Ayrtons, Bleasdales, Evans, Raimes, 11

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One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

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### DENTAL.

FOR sale, 12 dental showpieces, celluloid and vulcanite, from 3s. 6d. R. Laub, 123 West End Lane, London.

### DRUGS AND CHEMICALS.

4 x 100 B.W. phenacetin tablets; also Piperazine tablets 25; what offers? McMullan, Chemists, Larne.

LIQUORICE-JUICE; 1 cwt. for sale in 10-lb. blocks. "Stock" (84/3), Office of this Paper.

WHAT offers, whole or part?—33 boxes Jameson's complexion soap, 1 2s. 9d. Marmola tablets, 6 large Milo Food (no labels), 9 bottles phytin-liq. (for club use), 1 20-tablet bottle Peristaltin, 1 Fer Bravis 3 doz. 6d. size Farmer's Ratto, E. Matthews, Medical Hall, Royston, Herts.

### MISCELLANEOUS.

SALE, steam-jacketed copper pan, tilting, 30 in. wide, 25 deep. J. Barraclough & Co., Water Lane, Leeds.

### WANTED.

CORALOIDs. State number offered and price, March, Torquay.

WANTED, saccharine tablets, loose or bottled, Belshe, Bloxwich. SULPHONAL. Quantity and price to "V." 119 Okehampton Road, Exeter.

4-oz. Cannon Essence bottles, where obtainable. Apply, 174/51, Office of this Paper.

WANTED, good tablet counting or weighing machine, purchase or hire. Lait, 27 Store Street, W.C.

ADVERTISER requires vulcaniser, in good order; also any kind dental instruments, cheap. 85/6, Office of this Paper.

WANTED, receipt-printing Cash Register (National), keys to £2; in good condition and cheap. Write at once to F. Chapman, 150 Gillespie Road, Highbury, N.

DYES.—Small quantities of the following dyes required for experimental work: Pivacyanol, ethrosine, orthochrome T, pinacrdol. Reply by letter, stating quantity in stock and price, also name of manufacturer, to "F. J. S." (173/22), Office of this Paper.

WANTED, recipes, toilet, medicinal, veterinary, label with price. Samuel Arthur, Chemist, Redruth.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W.



# BRUNNER, MOND & CO., LIMITED.

Crescent



Brand.

## ALKALI PRODUCTS.

**These products are made by the Ammonia Process, and are distinguished from others by their great purity.**

**Bicarbonate  
of  
Soda.**

**This Bicarbonate answers all the requirements of the British Pharmacopœia.** It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

**Concentrated  
Crystal  
Soda.**

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

**Pure Alkali.  
58 Degrees.**

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

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Manufactured from pure Carbonate of Soda, and supplied of all degrees of strength.

## Bleaching Powder. Carbonate of Ammonia (Lump and Powder).

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

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# GLYCERIN SUBSTITUTE "BELL"

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Paste and Block Form also supplied. All approved for Sheep Scab.

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